FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Newspaper, and for Transmission Abroad.]

No. 2537.—Vol. LIV.

LONDON, SATURDAY, APRIL 5, 1884.

MR. JAMES H. CROFTS, STOCK AND SHARE DEALER, No. 1, FINCH LANE, CORNHILL, LONDON, E.C. ESTABLISHED 1842.

Business transacted in all descriptions of Mixing Stocks and Shares British and Foreign), Consols, Banks, Bonds (Foreign and Colonial), Rallways, Insurance, Assurance, Telegraph, Tramway, Shipping, Canal, Gas, Water, and Dock Shares, and all Miscellanceus Shares.

Business negociated in Stocks and Shares not having a general market value.

Nery Friday a general and reliable List issued (a copy of which will be forwarded on application), containing closing prices of the week. Mines inspected.

Bankers: City Bank, Londow—South Cornwall Bank, Bt. Austril.
TELEPHONE NUMBER 1003.

South Cardinerow.
South Darren.
South East Wynand.
South Devon United.
South Geoffer wid.)
South Penstruthal.
South Penstruthal.
Tambrachery.
Tanker. Gt. Consols.
Tolima A.
ditto B.
Tresavean.
Trevaunance.
United Mexican.
Van.

20 United Mexican.
50 Victoria Gold.
25 Van.
20 Wheal Agar.
15 Wheal Basset.
25 West Callao.
50 West Phenix.
100 West Caradon.
100 West Corebor.
20 West Polbreen.
20 West Kitty.
25 West Poldice.
25 Wheal Coates.
40 Wheal Grebor.
50 Wheal Airty.
40 Wheal Silver & Lanteglos.

Beggial Dealings in the following, or part:—
50 Asia Minor.
50 Akankoo, fully pald.
65 ditto, 17s. 6d. paid.
15 Gunnislake (Clitters) the following, or part:—

100 Guinea Coast Gold.
20 Great Laxey.
15 Gunnialake (Olitters).
20 Hawkin's Hill.
20 Hoover Hill.
30 Home Mines Trust.
100 Indian Consolidated.
101 Indian Gienrock.
105 Javall.
25 Kapanga.
26 Killifreth.
27 La Plata (New).
18 Last Chance.
19 Lisbon-Berlyn.
26 Michipicoten.
27 Michipicoten.
28 Michipicoten.
29 Panulcillo.
50 Prince of Wales.
20 Rhodes Reef.
30 Roman Gravels.
30 Roman Gravels.
30 South Caradon.
30 South Darren.
30 South Darren.
30 South East Wynaad
30 South Beav Wynaad
30 South Goffer wid
30 South Goffer wid
30 South Gefer wid
30 South Gefer wid
31 South Penstruthal.
32 South Gondurow.
30 South Gast Wynaad
32 South Gefer wid
33 South Beav Wynaad
34 South Penstruthal.
35 Marke Valley.
36 Jimbrachery.
37 Treasvean. ditto, 17s. 5d. paid Almada. Bedford United. Bratsberg. Bwlch United. Cankim Bamoo. Carn Camborne. Caliao Bis. Onlie Gold. Colombian Hydra Onile Gold.
Oolombian Hydraulic
Consolidated.
California.
Colorado.
Canada Copper.
Chontales.
Cor. So. Austra. Cop.
Devala Moyar.
Devon Consols.
Devon Consols.

Marke Vailey
25 Michipleoten.
20 Mona.
100 Mona.
100 Mounts Bay.
50 Mysore Gold.
75 New Caradon.
50 New Emma.
25 New Quebrada.
300 North Blue Hills.
20 New Kitty.
100 Nouveau Monde.
50 North Penstruthal.
25 New West Caradon.
100 Old Shepherds.
75 Organos.
10 Orita.
5 Penhal Don Pedro.
Drakewalls.
Duchy Peru.
East Blue Hills.
Eberhardt.

Flagstaff. Frongoch. Frontino.

50 Frontino, 80 Potosi, 50 Wheal Kitty.
50 Goginan, 80 Potr Phillip, 40 Wheal Sliver & Lan110 Gold Coast. 130 Parys Copper, teglos.
45 Grogwinson, 20 Phemis United, 100 Wymaad Perseverance
** SHARES SOLD FOR FORWARD DELIVERY (UNE, TWO, OR THREE MONTHS) ON DEPOSIT OF TWENTY PER CENT.
** SPECIAL BUSINESS at CLOSE PRICES in all Market TIN, COPPER and LEAD SHARES.

JAMES H.OROFTS, 1, PINOH LANE, LONDON. RAILWAYS - SPECIAL BUSINESS. - Fortnightly Accounts

pened on receipt of the usual cover.

JAMES H. CROFTS, 1, FINCH LANE, LONDON. FOREIGN BONDS — SPECIAL RUSINESS. — Fortnightly Accounts opened on receipt of the usual cover.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

MERICAN AND CANADIAN STOCKS AND SHARES-SPECIAL BUSINESS. A MERICAN AND SPECIAL BUSINESS.
Fortnightly Accounts opened on receipt of the usual cover.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

OLD AND SILVER MINES.—SPECIAL BUSINESS in ALL marketable INDIAN GOLD SHARES, and in California, Callao "Bis," Gold Coast, Guinea Gold Coast, Liabon-Berlyn, New Callao, West Callao, Tolima A, Tolima B, Tolim

MISCELLANEOUS SHARES of all DESCRIPTIONS BOUGHT or SOLD-SPECIAL BUSINESS:-Brighton Aquirium, General Ore lit, Hudson's Bay, Native Guano, Suez Canal, Westminster Aquarium, and Hotel Shares

SHARES SOLD for FORWARD DELIVERY, ONE, TWO, OF THREE MONTHS, On DE-POSIT OF TWENTY PER CENT.
JAMES H. CHOFFS, 1, FINCH LANE, LONDON. ELECTRIC LIGHT SHARES - SPECIAL BUSINESS.

Anglo-American Hammond. Swan.

Brush. Maxim-Weston.

ares sold for cash, account, or for forward delivery (one, two, or three Shares sold for each, account, or tor to months) on deposit of 20 per cent.

JAMES H. OROFTS, 1, PINCH LANE, LONDON.

EAST WHEAL ROSE, OLD SHEPHERDS, MOUNTS BAY, TRESAVEAN, HOME MINES TRUST, DUCHY PERU.

BPECIAL BUSINESS in the above for cash or account.

FOR SPECIAL SALE, for FORWARD DELIVERY, ONE, TWO, or THREE MONTHS, subject to deposit of Twenty PER OEST.—100 Duchy Peru, 100 East Wheal Rose, 200 Old Shepherds, 100 Tresaven, 200 Mounts Bay

JAMES H. CROFTS, 1, FINOH LANE LONDON.

ESTABLISHED 1842.

MR. W. H. BUMPUS, STOCK AND SHARE BROKER, AND MINING SHARE DEALER, 44, THREADSEPLE STREET, LONDON, E.C. ESTABLISHED 1867.

44, THREADMEDLE STREET, LONDON, E C.

ESTABLISHED 1867.

BUSINESS transacted in STOOK EXCHANGE SECURITIES and MISCELLANEOUS SHARES of every description.

ALILWAYS, BANKS, FOREIGN and COLONIAL BONDS.

TRAMWAYS, ELECGRAPHS, and all the LEADING INVESTMENTS Accounts opened for the Fortnightly Settlement.

List of investments free on application.

Ms. BUMFUS has SPECIAL BUSINESS in the undermentioned:—

100 Almada. 100 Eberhardt. 40 Panuicillo. 90 Birdesye Creek. 40 Ecton. 100 Fen-yr-Orsedd. 50 Birdesye Creek. 40 Ecton. 100 Fen-yr-Orsedd. 50 Birdesye Creek. 40 Ecton. 100 Fen-yr-Orsedd. 50 Frontino. 200 Potosi. 100 Carn Brea. 10 Great Holway. 100 Fen-yr-Orsedd. 200 Chontales. 100 Home Mines Frust. 100 Frince of Wales. 100 Colombian. 150 Indian Consolidated. 25 Richmond. 150 Londinonia Gold. 120 La Plata. 100 Bouth Kitty. 100 Gold Colorado. 120 La Plata. 100 Montana. 15 Tolima B. 50 Cook's Kitchen. 50 Marke Valley. 50 Transvaal Gold. 100 Montana. 15 Tolima B. 50 Cook's Kitchen. 50 Marke Valley. 50 Transvaal Gold. 100 Mourts Bay. 10 United Mexican. 15 Montana. 15 Tolima B. 50 Cook's Kitchen. 50 Marke Valley. 50 Transvaal Gold. 100 Mourts Bay. 10 United Mexican. 15 Montana. 15 Tolima B. 50 West Godolphin. 15 Miners. 50 West Godolphin. 100 Devon Friendship. 50 New Callao. 100 West Kitty. 15 Wheal Basset. 100 Organes. 50 Wheal Creebor. 50 Wheal Creebo 100 Almada.
75 Asia Minor.
60 Birdseye Creek.
50 Brataberg.
100 Carn Camborne.
20 Carn Brea.
200 Chontales.
100 Colombian.
130 Chile Gold.
40 Colorado. 50 Canada Copper.

3 Dolcoath.

100 Mounts Bay.

3 Dolcoath.

100 Devon Friendship.

50 New Callao.

50 Whest Godolphin.

50 Whest Godolphin.

50 Duchy Peru.

100 East Wheal Rose.

100 Nouveau Monde.

50 Wheat Granville.

50 Wheat Granville.

50 Wheat Callac.

50 Wheat Codes.

Mr. Bumpus devotes special attention to these Securities, and is in a position to afford reliable information and advice to intending investors and others, will liam HENRY SUMPUS, SWORN HENRER, OFFICES: 44, THERADREDUE STREET, LONDOS, E.C. ESTABLISHED 1867.

BRITISH AND FOREIGN MINING OFFICES. MESSES, PETER WATSON AND CO.,

18, AUSTIN FRIARS, OLD BROAD STREET, LONDON, E.C. BANKERS: THE ALLIANCE BANK (Limited).

MESSES. PETER WATSON AND CO.'S
BRITISH AND FOREIGN MONTHLY MINING NEWS
—STOCK AND SHARE INVESTMENT NOTES—MINES,
MINERALS, AND METAL MARKETS—SHARE LIST,
No. 864, Vol. XVII., for APRIL month, will shortly be ready,
and will be sent to customers on application.

Annual Subscription...... 59. | Single Copy. ... The Title Page and Index to our Eighteenth Volume are now ready, and can be obtained on application.

A L F R E D E .
STOCK and SHARE DEALER.
9, OLD BROAD STREET, LONDON. ESTABLISHED 1853.

MR. ALFRED E. COOKE can SELL the following shares, or portions thereof, at LOWEST CURREAT MARKET QUOTATIONS FREE of COMMISSION.

25 Bratsberg Copper. 75 Mounts Bay. 20 South Kitty Tin.

30 Callao Bis Gold. 20 New Kitty Tin.

30 Copper. 50 New West Caradon Copper. 50 New Carlao Gold. 50 Nouteau Monde Gold. 50 Nout Bile Hills. 80 New Callao Gold. 50 Noveau Monde Gold Transcrible Gt. Con. 75 Tresavean Copper & Tin. 80 New Callao Gold. 50 Noveau Monde Gold Transcrible Gt. Con. 75 Tresavean Copper & Tin. 10 Tolima A. 20 Units Gold. 50 Old Shepherds. 25 Organos. 25 Organos. 25 Organos. 25 Organos. 25 Organos. 25 Organos. 26 Ortica Gold. 50 Units Gold. 50 Prince of Wales. 100 East Rose Lead. 100 Potosi Gold. 20 Western Andes. 40 West Callao Gold. 50 East Blue Hills Tin. 110 Parys Copper. 20 West Callao Gold. 50 West Caradon Copper 8. 50 Victoria Gold. 50 West Caradon Copper 8. 50 Victoria Gold. 50 Victoria 15 New Witty Tin.
20 New Witty Tin.
20 New Caradon Copper.
50 New Caradon Copper.
50 New Callao Gold.
150 Nouveau Monde Gold.
150 Not Blue Hills.
80 New Callao Gold.
250 Orita Gold.
250 Orita Gold.
250 Orita Gold.
250 Prince of Wales.
150 Potos Gold.
275 Port Phillip Gold.
110 Parys Copper.
28 Richmond Silver.
29 Roman Graveis Lead.
40 Ruby.
20 Sortridge Copper and Tin.
20 South Caradon Copper & Tin.
20 United Gold.
20 West Caradon Copper & Copper.
20 Richmond Silver.
210 West Caradon Copper Copper.
210 West Caradon Copper Copper.
2110 West Gold.
220 West Caradon Copper.
230 West Caradon Copper.
240 West Caradon Copper.
250 Sortridge Copper and Tin.
250 South Altely Yill.
250 South Darren Silver.
250 South Caradon Copper & Copper.
250 Victoria Gold.
250 West Caradon Copper.
250 West Ca 20 Leadhills.50 Lisbon-Berlyn Gold.

TEN PER CENT. DEPOSIT.—Many of the above shares can be sold for settlement by arrangement at the middle or end of M y on payment of 10 per cent. deposit. Shares not found in the above list may be purchased on application. Mr. ALFRED E. COOKE Is a BUYER of the following SHARES:

20 Brataberg.

1 Delocath.

10 E at Lovel.

25 Deganos.

25 Victoria

25 Ecton.

25 Richmond.

30 Wheal 5" Mounts Bay. 50 Old Shepherds. 25 Organos. 25 Richmond. 100 Tankerville. 4d Home Mines Trust.

40 Home Mines Trust. 10 Tankerville.

8 PECIAL.—EAST BLUE HILLS, EAST LOVELL, NOUVEAU MONDE, BOUTH KITTY, SOUTH FRANCES, WEST KITTY, WHEAL AGAR, and WEST CREBOR shares are likely to ADVANCE.

Scarce can be supplied for CASH or FORWARD DELIVERY.

PRICE LIST of MINE SHARES and the LEADING BAILWAY and FOREIGN STOCKS is issued every FRIDAY.

ALFRED E COOKE, S, OLD BROAD STREET, LONDON.
(Opposite the Stock Exchange, with which the offices are in DIRECT TELEGRAPHIC COMMUNICATION.)
TELEPHONE NUMBER, 1265.

TELEPHONE NUMBER, 1283.

M. R. JAMES STOCKER, STOCKBROKER,

2. OROWN COURT, THREADNEEDLE STREET, LONDON, E.C.,

Has Special Business in the following for cash or settlement by arrangement ree of commission:

60 Altankoo.

30 Bratsberg,

60 Consolidated Sliver,

60 Californian.

60 Californian. 40 Panulcillo.
60 Prince of Wales.
81 Potosi.
25 Polberro.
39 Richmond.
55 South Kitty.
15 South Frances.
60 South Penstruthal.
70 Tressvean.
50 Transvaal Gold.
15 Tollma A.
30 United Mexican. 150 Kohinoor B, 50 La Plata, 50 Leadhills, 82 Lisbon-Berlyn, 29 Montana, 100 Mounts Bay, 55 Michipicoton, 75 New Callao, 100 Nouveau Monde, 60 Old Shepherds, 80 Orita. Colorado.
Cor. So. Austra. Cop. 100 Denver. 60 Old Shepherds. 2 50 Ecton. 80 Orita. 2 Railways, Foreign Bonds, Gold and Silver Mines, Mis-all Stock Exchange Securities.

15 Tolima A.
30 United Mexican.
100 Victoria Gold.
60 West Callao.
20 West Kitty.
25 Wheal Orebor ESTABLISHED 1851.
BANKERS: LONDON AND WESTMINSTER.

MR. ALEXANDER DAVIDSON, STOCK AND SHARE DEALER, LEADENHALL HOUSE, 101, LEADENHALL STREET, LONDON, E.C.

OF TWENTY-PIVE CENT.

> ONE HUNDRED PER CENT.

DIVIDENDS SCHWAB'S GULLY DIAMOND MINE A) Shares fully-paid should be bought for a big rise.
Telegrams announce the finding of 300-carat diamond in De Beers. Shares now purchased carry the dividend to be declared on 10th inst.

OLD SHEPHERDS.—Important news expected during Easter, which will cause the shares to double in pice. They should be bought at once for a big rise.

Special Circular now ready sent post free.

ABBOTT, PAGE, AND CO., STOCKBROKERS,

42, POULTRY, LUNDON, E.C.

MESSRS. PENNINGTON AND CO., SWORN BROKERS AND SHARE DEALERS, 13, MOORGATE STREET, LONDON, E.C. BUSINESS in all DESCRIPTIONS of STOCKS, MINING and other SHARES, ESTABLISHED 1869—BANKERS: ALLIANCE (Limited).

JOHN B. REYNOLDS, STOCK AND SHARE DEALER, 27. WALBROOK, LONDON, E.C. Established Twenty-rev Years. BANKERS: LONDON JOINT-STOCK.

WEST KITTY, NEW KITTY, AND TREVAUNANCE.

The very important meetings of these first-class mining companies are reported fully on page \$53 in last week's Mining Journal, and the attention of those interested is particularly directed to the same.

POLBERRO, ST. AGNES.

The shares of this mine are in favour, and will advance probably to a very high figure. The mine has been inspected by gentlemen who are well known, and whose opinions are universally respected. Mr. REYNOLDS will be happy to furnish the particulars of their report, and to give to his correspondents any information in his power. The books of the company and all other particulars are open for inspection at the company's offices. The management is the same as that of West Kitty, an it he property promises to be of a very high order. Mr. REYNOLDS directs attention to the fact that those who have purchased the shares can already obtain a fair profit. Mr. REYNOLDS further directs attention to the circumstances of his having been the first to introduce West Kitty, under very similar circumstance to those which, now characterise Polberro, St. Agnes, and Mr. REYNOLDS with equal confidence recommends the latter company's shares. West Kitty, with at present 12s. per share paid, returns 30s. per share per annum as a minimum dividend with every prospect of further increase. When West Kitty shares had only 2s. per share paid they were at a premium of £2 each.

Mr. HEYNOLDS refers to his remarks on page 189 POLBERRO, ST. AGNES.

FERDINAND R. KIRK, STOCKBROKER, 5, BIROHIN LANE, LONDON, E.C.

SPECIAL BUSINESS in the following:—
68 Brataberg.
70 East Wheal Rose.
90 Home Mines Trust.
40 Leadhills.
40 Leadhills.
40 Leadhills.
40 Contales.
40 Contales.
40 Great Laxey.
40 Mounts Bay.
40 Great Laxey.
40 Mounts Bay.
40 Jill Shiepherds.
40 Ji

SHARES WANNED:

100 Chontales,
20 Great Laxey.
20 East Wheal Rose,
70 Mounts Bay.
50 Trusaven.
50 Home Mines Trust,
50 Old Shepherds,
60 Trusaven.
6

"DIFFERENTIAL" PUMPING ENGINE (DAVEY'S PATENT),

DRAINING MINES, WATER SUPPLY OF TOWNS, IMMIGATION, SUPPLYING DOCKS, PUMPING SEWAGE, and GENERAL PUMPING PURPOSES.

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M R. A L F R E D T H O M A S, MINING ENGINEER, AND STOCK AND SHARE DEALER, 19, COLEMAN STREET, LONDON E.C.

Just published. Entirely rewritten. Post free One Shilling. PARE CASH: WHAT SHALL I DO WIFH IT?—
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ESTABLISHED 1852. MR. HENRY J. TALLENTIRE,
STOCK BROKER AND MINING SHARE DEALER.
SPECIAL BUSINESS in all Home and Foreign Mines at close prices.
MARCH CIRCULAR on application, containing valuable information and
advice to Investors, post free. SHARES SOLD for forward delivery in one to three months upon usual

OFFICES -21, THREADNEEDLE STREET, LONDON, E.C. BANKERS: CITY BANK, Threadneedle-street, E.C..

MR. J. GRANT MACLEAN. SHAREBROKER AND IRONBROKER, STIRLING, N.B., Refers to his Share Market Report on page 398 of to-day's Journal.

MR. E. J. BARTLETT, STOCK AND SHARE DEALER, 30, GREAT ST. RELENS, LONDON, E.O. Selected List of Investments post free on application. Eighteenth Edition, now ready—"HOW TO INVEST"—post free 12 stamps.

JOHN LENN AND CO.'S INVESTMENT CIRCULAR ONE HUNDRED PER CENT. HAS BEEN MADE IN A WEEK,

> JOHN LENN AND CO. (LIMITED), STOCK AND HARE DEALERS, 4 AND 5, GROCERS' HALL COURT, LONDON, E.C. Circular now ready, and post free.

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T. LETCHER, JUN., MINE SHAREBROKER, REDRUTH, TRANSACTS BUSINESS at close prices in all CORNISH MINES.

Advice and information to intending investors.

W. WISDOM AND CO., STOCK AND SHARE DEALERS,
SHARE EXCHANGE OFFICES,
110, CANNON STREET, LONDON, E.C.

Business transacted in all classes of Securities. Selected List of Shares for nmediate investment on application.

MESSRS. ENDEAN AND CO., STOCK AND SHARE DEALERS. 85, GRACECHURCH STREET, LONDON, E.C. ESTABLISHED 1862.
BANKERS: LONDON AND WESTMINSTER, Lothbury, E.C.

MR. W. B. COBB. 29, BISHOPSGATE STREET, LONDON.
TOLINA, WESTERN ANDES, and CORPORATION SOUTH AUSTRALIAN COPPER certain to have a great rise. See Circular, price 1s.

M. R. W. TREGELLAS, 40, BISHOPSGATE STREET WITHIN, E.C.,
Deals in all descriptions of SPOUKS and SHARES at close market prices.

MESSES. H. HALFOED AND CO., 2, ROYAL EXCHANGE AVENUE, E.C., ave BUSINESS in ECTON COMPANY SHARES.

SELLERS are requested to communicate with the above. MR. W. MARLBOROUGH, STOCK AND SHARE DEALER,

R. W. MARLBOROUGH, STOCK AND SHARE DEALER,

29, BISHOPSCATE STREET, LONDON, E.C. (Established 31 Years)

75 Almada.
20 Bratsberg.
90 Colombian Hydraulie
50 Corporation of South
Australian Copper.
80 Chontales.
20 Colorado.
50 Devon Friendship.
VIOTORIA GOLD (Venezuela).—I strongly recommend the immediate purchase of these shares for an important rise; also CORPORATION OF SOUTH
AUSTRALIAN COPPER.
PURCHASS FOR FORWARD DELIVERY AT SPECIAL PRICES ON REGISTOR FOR FORWARD DELIVERY AT SPECIAL PRICES ON REGISTOR FOR FORWARD DELIVERY AT SPECIAL PRICES ON REGISTOR, Told Venezuela), Told Shetcherds, and Mounts Bay.

BUYER of any part of 100 Victoria Gold (Venezuela), Toldma A and B, Cara Gamborne, East Rose, Home Mines Trust, Old Shetcherds, and Mounts Bay.

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1880.

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TO WHOM ALL ORDERS SHOULD BE ADDRESSED.

ALSO AWARDED GOLD MEDAL AT CALCUTTA EXHIBITION.

BREAKER





FACTS SPEAK FOR THEMSELVES.





AWARDOD

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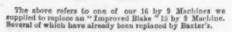
(TO)





Cunderford, Feb. 13, 1833.

DEAS SIR.—I am pleased to be able to tell you that the Machine works splendidly. We are breaking 16 trucks ad day now, and we thought it a good day's work to do 10 a day with the old Machine, so you can see the difference. I had a gentleman looking at it yesterday, and he was surprised to see it work so easily. Yours truly, E. ORGAN.



PATENTEES AND SOLE MAKERS,

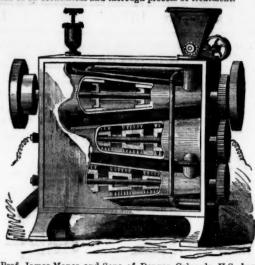
W. H. BAXTER & CO., ALBION STREET, LEEDS.

NOVEL ELECTRO METALLURGICAL MACHINE.

PROFESSOR JAMES MANES AND SONS call the attention of miners, mineowners, capitalists, and others interested in the working of gold or silver mines to their new Electro Metallurgical

Working of gold or silver mines to their new Electro Metallurgical Machine for extracting fine and rusty gold from sands or tailings of stamp mills, or the sands of hydraulic gold diggings, or from the black sands on the coast of Oregon or California, and other parts of the world where gold is found.

The problem that has long troubled the worker of free-milling gold and silver ores is a method to save the mineral now lost in the tailings of stamp mills or flumes. This alone, if it could be saved, would amount to many million dollars profit each year, besides enabling the working of much territory which is now lying idle for want of an economical and thorough process of treatment.



Prof. James Manes and Sons, of Denver, Colorado, U.S., have invented a machine (represented in the above engraving) which it is claimed will save nearly the entire amount of mineral which passes through it, the loss not being over 10 per cent., and in many cases not in excess of half that amount. The machine is a cheap and practical process—it never need stop for charging or cleaning up, being nearly self-acting. Steam, electricity, and mercury are used in the process of extracting the mineral.

This machine or amalgamator is adapted for free-milling gold or silver ores, or refractory after roasting. It consists of a series of three or more large cylinders, wider at one end than the other, placed one above the other in a horizontal position, a shaft or spindle running through the centre of each.

The ore and mercury are fed into the first cylinder, passing into the second, and then to the third. The first cylinder is furnished with steel, mullers which nearly touch the sides of the cylinder, and revolve at a good rate of speed, mixing the mercury and ore. The second cylinder is furnished with large steel brushes attached to the shaft or spindle, revolving at a high rate of speed; through this a current of electricity is furnished by a Westinghouse dynamic electro machine, which materially assists in gathering the particles of very fine gold together, and thoroughly amalgamating the metal and mercury. The third cylinder is similarly furnished to the second; into this the amalgam passes, and is again acted upon and mixed by the brushes to catch any gold which might have escaped amalgamation in the second. A fourth cylinder may be used if found necessary.

The amalgamated pulp then passes through a revolving copper drum, plate during the wind the cylinders. After free wind the drum revolves it takes up the most part of the amalgamated gold. As the inside of the drum is constantly washed with a spray of water from perforated pipes fixed inside of said drum, a clean-plated surface is constantly brought in contact wi

Ball Pulveriser, that crushes and pulverises at the same time, and does as much work as eight stamps in a day, crushing either wet or dry.

PRINCIPAL OFFICE OF

Prof. MANES and SONS,

No. 372, Glanarm Street, Denver, Colorado,

All our machines and furnaces are made by the Colorado Iron Company of Denver, Colorado, the most extensive mining machine works in America.

PATENT MARSAUT MINERS' SAFETY LAMP.

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Meetings of Bublic Companies.

MYSORE GOLD MINING COMPANY.

MYSORE GOLD MINING COMPANY.

The fourth ordinary general meeting of this company was held at the Cannon-street Hotel on Monday.

Mr. CHARLES ENNANY, M.P., in the chair.

Mr. W. G. WILLIAMS (the secretary) read the notice calling the meeting. The report and accounts were taken as read.

The CHAIRMAN said: Gentlemen, I do not think it will be necessary for me, on the present occasion, to make any very lengthened remarks in proposing to you the adoption of the reports and accounts; for, as you are aware, the position of the company was very fully stated and discussed at the special meeting, which was held last October, and what has been done since is, I think you will agree with me, very clearly set forth in the reports which have been issued to you in anticipation of this meeting. I can say, on behalf of myself and colleagues on the board, that we meet you to-day with much greater satisfaction than we did on the last occasion, as the results of the operations which have been carried on in the interval grow greater as infanction in the meeting of the operations which have been carried on in the interval grow grant on workings, we shall find auriferous quarts in paying quantities. It is evident that Capt. Plummer has a sanguine opinion that this will be the case. In his last later, dated Manch 4, received ince the printed reports were launch, he says.—

good looking lode, and f think it will at places make good deposits of gold. We income the carried of the company of th

moved the adoption of the report and accounts.—Mr. ORLAND WEBE (Depaty Chairman) seconded the motion.

The ORLARMAN said that perhaps the shareholders would like to hear a few words from Mr. Taylor. (Rear, hear.)

Mr. JOHN TAYLOR said there had been circulated amongst the shareholders so full a description of the workings, of the present position of the mine, and the operations which had been carried on, and which were now in progress, that it was soarcely necessary for him to enter into details. At the same time, it had come to his knowledge from enquiries which had been made by one or two shareholders that has he believed to be a wrong impression upon two impacts of the present of the property of the proper

The adjourned second annual ordinary meeting of shareholders was held at the offices of the company, Queen Victoria-street, on March 28, Mr. James Sampson Peirce, C.E., the Chairman, presiding.

Ane adjourned second annual ordinary meeting of shareholders was held at the offices of the company, Queen Victoria-street, on March 28,

Mr. James Sampson Peirce, C.E., the Chairman, presiding.

Mr. Herbert R. Duke (the secretary) read the notice calling the meeting, and the report and accounts were taken as read.

The CHAIRMAN said:—Gentlemen, according to custom you will expect me to say a few words. There are only two subjects I can have anything to say a word upon; the first is the statement of accounts, and the second the general state of the mine, and what we have done since last we met. Well, since last we met 1017 It. shares have been issued. It is very astiskatory to us, and I hope to you, that under the head of "Sundry Creditors" we are able to write ni. On the other side of the accounts we have expended in wages, directors' remuneration, and salaries, 174Cl., for tradesmen's accounts 228C, and we have only added to the expenses of machinery 140l. The miscellaneous expenses I think I may congratulate you in saying that they only come to 110l. The cash at bankers and sundry debtors are about 120C. lest than on Dec. 31, 1833.— [The SEGERTARY: That is what has been expended in 1833, not the total.]

The CHAIRMAN: The unissued shares are, as you will see, 16,982 of 11. each. When I sit down if there are any questions to be asked, I shall be most happy to answer them. There is one subject I will refer to—the notice of adjournment from Feb. 13, which was our annual day of meeting, till to-day, which is an interval of six weeks. I trust the important results which have in the meantime taken place on the mine will have fully justified the information we got at that moment, and the conclusion we came to not to bring you together until now. The important results are in the 69 yard level—the cross-out south as we term it—and also in the 50 north. Since the last general meeting, in the general exploration on our property, we have sunk another shatk known as Sampson's shaft. We have gone down 40 yards, and about

we have no reason to regret having so done. I hope Mr. Bartlett will second this resolution, and when he has done so if any shareholder has any point on which he requires information, or any question to ask, I shall be happy to answer it.

Mr. E. J. BARTLETT: In rising to second the resolution which you have proposed I think as I had a great deal to say on the last occasion of our gathering you will expect from me but very few remarks as to the present position of the underground workings. At the date of our last meeting it was fully expected that within a very short time the great Milwr lode would be intersected. At that time I stated it had produced a great quantity of lead, and that it runs through our property. Their cross-cut was in very hard ground. I went down to the mine, and one of the numerous small shafts which I alluded to at late last meeting, twhich were sunk by our prodecessors, and from which a large quantity of ore was raised. After some considerable trouble one of the principal shafts was ogened, and a sump sunk, and we discovered the Milw lode, and we soon struck lead, and splendid stuff was raised. Therefore it was with confidence that we continued our cross-cut. Capt. Harris stated that the Milwr lode has been intersected. They have been driving on the lode, and in another month we shall have communication with the shallow workings I have referred to, which will, without additional outlay on our part, open up valuable sections of ore ground which we can get away cheaply. You will notice amongst the additional assets we speak of lead ore broken, and here we have to turn to a very happy feature in connection with the property, and no doubt you will regard the circumstance as very satisfactory. Since the last receting we have driven it about 40 yards, and after we had extended the cross-out at the 50 yard level to work the east and west lode. Captain Harris states we have driven it about 40 yards, and after we had extended the cross-out of yards will be the last of the property of the brottom,

cation, be should be happy to move that it be accepted. He was sure all the sharzholders had the greatest possible confidence in the board, and were glad to see the old floor amount the table, for when things went wrong the directors watched with great interest by other companies, and if they olived the problem of indirectors with the state of the state

arried.
Mr. ALF. THOMAS moved that Capt. Coombs and Mr. Gamble, the retiring diectors, be re-elected.——Capt. PALLISER seconded the motion, which was carried.
On the motion of Mr. THOMPSON, seconded by Mr. ALF. THOMAS, the auditor, fr. J. S. Eastes, was reappointed.
A vote of thanks to the Chairman and directors closed the meeting.

LEADHILLS SILVER-LEAD MINING AND SMELTING

COMPANY. The ordinary general meeting of shareholders was held at the

ffices of the company, Finsbury Circus, on Wednesday,
Mr. Peter Watson (managing director) presiding.
Mr. Felix F. Wilson (the secretary) read the notice convening the

meeting.

The CHAIRMAN said, as that was not the annual meeting of the company, there was no report from the directors or statement of accounts to lay before the shareholders; but he would be able to tell them shortly how they stood in the present unfortunately depressed state of the lead market: It was the old story, which had been repeated over and over again in lead mining companies, that they were month by month going from bad to worse. In 1873 lead ore realised about 171, per ton, whereas the present price was about 62. 10s, per ton; while in the same period Spanish pig-lead, which was an index to other descriptions, had fallen from 234. or 244. to about 111, a ton. Within the past few hours the price had gone up a few shillings a ton; but the fact remained that it was almost impossible for even the richest lead mines to pay their way. This was so much the case that a great many of the Weish lead mines had been completely shut up—mines that, with lead at normal price, had given good dividends to their mines had suspended operations. Certainly, if any mine could be made to pay he thought it should be Leadhills, and no stone had been left unturned to bring about such a result. The property had been most efficient unturned to bring about such a result. The property had been most efficient turns had been good or tad, and whether or not good prices had been down the substantial of their produce, the proper develorment of the mine had been tell unturned to bring about such a result. The property had been most efficient was been improved, and whether thus recommending a portion of the property which had not been worked for years. In the past six months the work were found years ago, and they were thus required and the marcholders. For the last three or four years they had been diving a level on the Georges Roust vein, where deposits of enormous riches were found years ago, and they were thus required and the substantial property of the property which had not been nowed to for the property which had not been impro neeting.

The CHAIRMAN said, as that was not the annual meeting of the company, there was no report from the directors or statement of accounts to lay before the shareholders; but he would be able to tell

(Applause.)
After some further conversation, from which it appeared there was a general consensus of opinion that no effort should be spared to effect the reduction of a royalty, Mr. THOMAS WILSON moved the following resolution:—"The Chairman having reported to this meeting his interview with Mr. James Hope (Lord Hope-toun's representative) in Edinburgh on March 18, and having also read the correspondence which had passed between them respecting a reduction of the pre-

requested to place before Lord Hopetoun the views and whales of the share-holders with regard to the reduction of the royalty at Leadhills, and in view of the serious depression which now prevails in the price of lead, and having regard to the vigorous development of the property, together with the improvements at the smelting-works, they respectfully urge upon his lordship to take into his most favourable consideration their application for a liberal reduction of the royalty, as set forth in the Chairman's letter of March 18. " (Applause.) Mr. Glens we conded the motion, which was carried unanimously. Mr. Roser Wilson proposed the re-election of Mr. Peter Watson, the retiring director, and in doing so bore testimony to the indefatigable exertions which Mr. Watson had put forth on behalf of the company. —The proposition was seconded by Mr. James Wilson and adopted.

The CRAIRMAN having briefly returned thanks for his re-election, the meeting closed with the usual compliment to the Chairman and directors.

ALAMILLOS COMPANY.

The half-yearly general meeting of shareholders was held at the offices of the company, Queen-street-place, on Thursday.

In the absence, through indisposition, of Mr. J. P. Judd (the Chairman) the chair was occupied by Mr. WILLIAM COX.

Mr. HENRY SWAFFIELD (the secretary) read the notice calling the meeting.

meeting.

The CHAIRMAN said he must repeat what he said at the meetings of the other companies—that he was glad to be able to congratulate the shareholders that they were able to declare a dividend. This had to a great extent been effected by making great economies, and by a reduction in carriage and freight. The mine had been remarkably good, and everything connected with the three companies was now as cheering as when he first joined the company, except the price of lead. The mention of the price of lead induced him to refer to a carious fact. He read the other day that there were periodical periods of depression in the price. He read the other day that there were periodical periods of depression in the price. He read the other day that in 1734 lead was down to 114 per ton. It gradually rose to 3:4, per ton, and kept at a good price. Fifty years afterwards, it was again down to about 114, per ton. Looking at these facts, he thought they might reasonably hope to see the price of lead again go up. (Hear, hear.) He moved the adoption of the report and accounts. Mr. John Taytlos said he could assure the shareholders that the mine was not being "sweated." The exploratory work was being

Mr. JOHN TAYLOB said he could assure the shareholders that the mine was not being "sweated." The exploratory work was being properly carried out, and they were driving 10 or 11 levels, and there were several winzes being sunk, and they were also going to the expense of sinking a shaft. So they were not dependent upon the tributer, but if they were they might very probably be "sweating" the mine. The exploratory work was at present being carried on with the utmost vigour. At the last meeting the San Victor shaft was spoken of very hopefully and also the ground in its vicinity. Since then the 50 east from the shaft had spened up a considerable length of valuable ground. He believed the opening up had been more important, and had given better essults than before. He looked upon that as an important feature, because it was at the comparatively shallow depth of 30 fms; therefore this mine was still in its infancy. The agents were devoting every attention to the further sinking of this shaft. Good quantities of ore had been discovered in other parts of the mine, which continued to open up satisfactorily. The tribute system had proved a great advantage. He thought, on the whole, the position of the company was a natter for congratulation. (Hear, hear.)

On the motion of the Chairman, seconded by Mr. PEILL, the retiring directors, Mr. H. D. Abercrombie and Mr. Fred. W. Bigge, were re-appointed.

A vote of thanks to the Chairman and directors closed the meeting.

spointed.
A vote of thanks to the Chairman and directors closed the meeting.

FORTUNA COMPANY.

The half-yearly general meeting of shareholders was held at the The half-yearly general meeting of shareholders was held at the office of the company, Queen-street-place, on Thursday. In the unavoidable absence of Mr. Robert Henty (the Chairman) the chair was occupied by Mr. WILLIAM COX.

Mr. HENEY SWAFFIELD (the secretary) read the notice calling

the meeting.

The Charman said that, looking at the wretchedly low price The CHARMAN said that, looking at the wretchedly low price of lead, he thought the shareholders would consider themselves fortunate in being able to declare a dividend at all, although but a small dividend. They talked about a small dividend, but, after all, a dividend of 3s. 2d. per share on a 2l. share was not so bad. (Hear, hear.) In years gone by they had paid 14s., 15s., and 15s. per share. He was exceedingly pleased—as a large shareholder—that by the economies which had been effected, and by the arrangements they had made with railway companies and shipowners regarding freight, that they had been enabled to make the present dividend. He sincerely hoped that six months hence they would see some improvement in the price of lead which would enable the company to go on more flourishingly. He moved the adoption of the report and accounts. —Mr. LONGCLUSS seconded the motion.

Mr. 8. J. WILDE sid the could congratulate them that in this company they had carried something to the reserve fund.

The ORAIMANS: We are obliged to do it. (A laugh.)

Mr. 8. J. WILDE: I wish you were obliged in the other companies.

The resolution for the adoption of the report and accounts was then put and arried.

Mr. JUEN B. PELL moved the re-election of the retiring directors. Mr. Wm.

week sold lead at the low price of 10s. 18s. 3d. per ton, and 11s. per ton was the best price they could obtain for lead containing aliver. Therefore, under these circumstances it was almost a matter of surprise to be able to declare a dividend of 2s. per share. Now, 3s. per share for the half-year upon a 3s. share was 10 per cent. per annum, which was not a bad return to those who bought their shares at 3s. per share; but he happened years ago to buy about 10s shares at 1st. 2s. 3d., and others varying from 8s. to 10s. a piece. Therefore, to him the return was not so good. However, if they could go on paying a dividend he should be satisfied. He really thought the time must come when they would get a better price for their produce. If it were not for the management in Spain, to say nothing of the management in this country, and for everything being strictly looked over, he did not see howing vilvidend could have been made at all. The company was saving by paying less for coal, for rullway carriage, and for freight. He was asked the other day by a proprietor, to whom he was giving this explanation, how it was that they old not pay less rates two or three years ago, and the answer was for this reason, that shipowers and railway companies would rather carry the goods for less than lose the whole; and a small reduction on the 30,000 or 40,000 tons sent by this and the other two companies meant a considerable amount in the aggregate. The fact was that things were looking so bad that the directors took the shipowners and the railway owners into their confidence, and after some negociations arrangements were entered into for a reduction of price, and the company had made the small profit it had done. In fact, looking at the low price of lead, the shareholders might all nost be thankful that the glore on a dividend at all. (Hear, hear.) He moved to adoption of the report and accounts.—Mr. 8.5. Willes seconded the motion. He noticed that the directors had not added the profits had one of the profits from the working ha

eserve, but the rent of the house at Cordova, and also the dividends on Consols,

reserve fund. tion for the adoption of the report and accounts was then put and

reserve, but the rent of the house at Cordova, and also the dividends on Consols, went to the reserve fund.

The resolution for the adoption of the report and accounts was then put and sarrisd.

Mr. FRED. W. BIGGE moved the re-election of the retiring directors—Mr. Wm. Cox and Mr. H. D. Abercomble.—Mr. JOLLIFFE seconded the motion, of the OHARMAN, seconded by Mr. H. D. ABECGEONDIE, the auditors—Mr. E. L. Agar and Mr. Richard Donagan, were reappointed.

The CHAIRMAN said he was sure the shareholders would like to hear a few words from Mr. John Taylor. (Hear, hear.)

Mr. JOHN TAYLOR said he had really very little to add to what was stated in the report. If the price of lead were only such as to give the company a fair chance the position of the mine would be really very satisfactory. The explorations had resulted in the discovery of considerable quantities of ore in different places. The great work whichhad been mentioned to the shareholders six months ago had now been completed—the cross-cut by which the water would flow from Warne's shaft to Peill's shaft. Last September Capt. Tonkin spoke of a saving of 300% per annum from that work. They had a powerful pumping-engine at Peill's, which would do away with the expensive pumping by horizontal rods. The appearance of the iode in the deeper part of the mine justified the expense incurred in sinking. The 130, driving west of Warne's shaft, was opening up well, and in December was reported to be worth 2 tons to the fathom, and there were other points with equally good prospects. In Los Quinientos all the levels were looking well, particularly in the 100, east of Taylor's shaft, where there had been maintained since that date. The lode in the 115, driving west of Judd's shaft, the lodes were reported to be worth 3 tons to the fathom. In the 115 cast the lode was reported to the fathom, and there were other points with equally good prospects. In Los Quinientos all the levels were looking well, particularly in the 100, east of Taylor's shaft, where there had been mainta

ANTIQUIA (FRONTINO) COMPANY.

The ordinary general meeting of shareholders was held at the offices of the company, Gresham House, Old Broad-street, yesterday, Mr. RICHARD DONAGAN in the chair.

Mr. J. JAMESON TEURAN (the secretary) read the notice convening the meeting. The report and accounts were taken as read.

The CHAIRMAN having expressed the wish that a larger number of shareholders had been present said that although they could not

The CHAIRMAN having expressed the wish that a larger number of shareholders had been present, said that although they could not refer to the fact that they were enjoying the delights of fruition, yet, nevertheless, they had the pleasures of hope, and of very well grounded hope too; because they had, after years and years of effort and groping, attained the object which, in the early stages of the company, was expected to be achieved in a few months. The old, ruinous part of the property had been abandoned, and the workings below that part of the property had been abandoned, and the workings below that part of the property had been abandoned, and the workings and in the course of that operation they had had to deal with a large amount of water. As soon as the new shaft was communicated with the adit the old workings were also communicated, with the result that the water was got rid of, and since then explorations are specialized in the said working, and in the course of that operation they had now, however, really been commenced, and with the limited amount of clearing away that had yet been effected, experience had borne out the success that had been predicted. The claimman explained the had been going on for some years there had now been erected at the mouth of the new wait a 9-head mill. A 12-head mill had been commenced, and was indeed on the success that had been predicted. The claimman explained the had been going on for some years there had now been erected at the mouth of the new wait a 9-head mill. A 12-head mill had been commenced, and was indeed to be a success that had been predicted. The claimman explained the had been going on for some years there had now been erected at the mouth of the new wait a 9-head mill. A 12-head mill had been commenced, and was indeed to be a success that had been going on the success that had been medically as a profit of the accounts to for the success that had been going on the success of the suc of shareholders had been present, said that although they could not refer to the fact that they were enjoying the delights of fruition, yet, nevertheless, they had the pleasures of hope, and of very well-Forestate in being able to cheater a division at all, although start will be although the property of the company that the property

factory than in the previous year. With regard to the Lingan Mine there again a deficit was shown; but he had explained at the last meeting that they must look forward to such a deficit, owing to the operation of the long continued strike, which lasted for upwards of thirteen months, and the long continued strike, which lasted for upwards of thirteen months and the long continued in May last. This strike had not only involved legal and other direct continued at the long of the long

out discussion.

The OHAIRMAN moved the re-election of the retiring directors—Messrs, Charles Bischoff and James Duke Hill, and in doing so tendered those gentlemen his thanks for the great assistance which they had given in the conduct of the affairs of the association.—Mr. BRIDGE seconded the motion, and it was

the affairs of the association.—Mr. BRIDGE seconded the motion, and it was carried.

On the motion of Mr. BRIDGE, seconded by Mr. HARDING, the retiring auditor, Mr. Charles Chatteris, was re-elected.

Mr. Charles Chatteris, was re-elected.

Mr. Charles offered his congratulations to the directors on the improved results of the operations of the association, and referred to the exertions which the directors had displayed in their management of the association. He moved: "That this meeting begs to tender its warmest thanks to the Chairman and directors of the General Mining Association for their excellent conduct of the affairs of the association during a very trying period, and hereby resolve that in acknowledgment of their services the remuneration for the board for the past year, and until altered by general meeting, be restored to the sum of 100 guiness. Cheers.)—Mr. WILLIAMS seconded the motion, which was supported by Mr. THOMAS POWELL DISCON and Mr. WILHHIN, and was adopted. The CHARMAN having acknowledged the vote in suitable terms, referred in a very complimentary manner to the valuable services which the association has continued to receive from Mr. Swann (the secretary), to whom he proposed a vote of thanks.

The proposition was seconded by a Shareholder, and agreed to, and Mr.

a vote of thanks.

The proposition was seconded by a Shareholder, and agreed to, and Mr.

Swann briefly acknowledged the compliment.—The meeting then closed.

here is rich both in small barrel work and stamp rock that will require to be picked carefully underground as we brought down a good deal of trap with it. In No. 2 shaft cast about 20 ft. below the first level we have commenced a stoping drift. This will in no the best present. We have got some excellent wide, and about 10 ft. in from the shaft present. We have got some excellent stamp rock here, also some hear how much larger it is we cannot yet say as it about 2 ft. of fir. In No. 2 shaft we have at last brock through to the surface. The picked footpore is now uncovered about 5 ft. ft. ft. in No. 2 shaft we have at last brock through to the surface. It is shaft has been the same the whole distance from the adit level, a distance of 13 ft. We holed though as we expected beside some old Indian diggings, but at the place where we holed there was an outcrop of the vein, it being overlaid by about 2 ft. of trap. This shaft now improves our wortistation immensely, and as soon as possible we must get it equipped for hoisting, as we are now tramming in the first level, a distance of nearly 700 ft. to the shaft. In No. 1 sast we have continued driving, but the veins looks very poor. This morning we commenced hoisting into the shaft-house and rock house, and had the rock breakers at work. The rock as it is dumped from the skips falls upon a screen of hard wood, each pice 4 in. by 10 in. and about 4 in. a spar. Bd floor. The larger rock falls from the screen on to an an elevate the trap and waste for his rock-reakers are one of the rock-breakers are one of the rock breakers at work. The rock as it is dumped from the skips falls upon a screen of hard wood, each pice 4 in. by 10 in. and about 4 in. a spar. Bd floor. The larger rock falls from the screen on to an an elevate the trap and waste for his process. The rock from the pockets work. The top of the rock breakers are one of his process. The process is proved to the rock breakers are one of the rock breakers are of the rock in the rock breakers are described by the pr

the burrow has been stamped, and a sample of the sand sent to Houghton to be assayed. I believe it will go about 2 per cent., if not better. Our next trial stamping will be from the Knowlton, and until we are ready to do this, the mill will stamplas before rock being raised from the Champion stope. Nothing further to report.

CALLAO BIS GOLD.—Feb. 3: Shaft No. 3: The quartz very met with in the western drift was struck in the shaft 12 ft. below the drift. Its direction is the same—north-west and south-east—and the quality of the quartz very satisfactory, with abundance of sulphurets.

CALLFORNIA GOLD.—Aifred Rickard, March 1: The 1500 east is in 244 ft.: ventilation being required a rise is being put up in pay at 215 ft. from the shaft. The vein in the rise is yielding 3½ tons of milling ore per fathom. The lock at the 1500 west is or and 15 ton of smelling ore per fathom. The lock at the 1500 west is very regular but small; the stopes are in apleuding 1500 east is not of milling or and 15 ton of smelling or per fathom. The lock at the 1500 west is of ore throughout, the yield of which and the lock at the 1400 west, which has now been driven 469 ft.; the stopes are yielding high grade ore, but the vein is not large. The smelling ore for February railsed 2104 40 per ton. At the Hidden Treasure Mine the lode at the 1400 west, which has now been driven 469 ft.; the stopes are yielding high grade ore, but the vein is not large. The smelling ore for February railsed 2104 40 per ton. At the Hidden Treasure Mine the lode at the 1400 east is of a well-defined character, and of a promising nature for pay. Work will be resumed at the 1300 west in the coming week.

Mr. Rickard telegraphed on Thursday as follows:—Mill run, 495 tons; yield, \$3000 (7606.); smelling ore alse, \$170 (340.4); total, 11006.

COLOMBIAN HYDRAULLO—A. E. Oakes, Feb. 18: Run No. 100 concluded on Feb. 16. The necessary stopage of the mine for the construction of the shield, and for thorough repairs to the old Canterera ditch, only be from the sulces, w

The drift is started again; \$5 tons mill ore hat week yielded 17% ozs. gold. There are no changes in 1275 weets storpe. The 1350 west drift is in 3291 ft. from shaft, and has changed in character of ore for the better we think. Total milling last week amounted to 180 tons ore and 70% ozs. gold. Smelting ore sales, as above, to 20,737 lbs. ore and \$113.

DENVER GOLD—Prank S. Craven, March 18: The 800 West (North Vein): The drift is in 238 ft. east from cross-cut, and carries 3 ft. of mill ore. The stopes have not changed much. Winzs to 900 is down 33 ft., and carries over 2 ft. of mill ore and some smelting ore; 102 tons of mill ore last week yielded 4% ozs. gold.—The 900 West (North Vein): The drift west from cross-cut is in 24 ft., and carries 18 in. of very good ore, some being good amelting ore. Rise from this drift is up 6 ft. towards winzs from the 200.—The 900 West (Main Vein): The drift is in 942 ft. from the shaft, and carries 2 ft. of good looking ore. The stopes have been very poor for the past week, but are now looking better, and are in such shape that we can break the pay ore without breaking much poor stuff, which has not been the case lately. But little is doing in the 1275 west at present. The 1350 west drift is in 335 ft. from the shaft, and looks well, carrying over 1 ft. of apparently good ore. We have no mill run on this yet. The winze from the 1275 west drift to meet the 150 is driven 10 ft., and has good ore in the bottom. Total milling last week amounted to 214 tons of ore and 68% oze, gold. Expected returns on 10 tons smelting ore have been delayed.

EBERHARDT.—Ft. Drake, March 8: Drift No. 1 from 6000 ft. west has advanced 5 ft., total, \$5 ft. The large amount of apar and considerable clay as found last week still continues, and we find no change as yet in the broken up condition of the ground. Drift No. 2 from 6000 ft. west has advanced 5 ft., total, \$5 ft. The large amount of apar and considerable clay as found inst week still end in the 100 driving west of consolved in the 100 drivin

FRONTINO AND BOLIVIA.—The statement of the profit and loss account for January shows that 2482 tons (of 20 cwts.) from general mines produced (average 15 dwts. per ton), 1850 czs.; gold bought, 138 czs. = 1984 css.; worth, including exchange, 52591; cost at the mines, at Medellin and in London, 47514, 15s.; monthly allowance for freight, commission on gold sales, and sundry fluctuating outlays not immediately ascertainable (estimated at), 304; paid for gold bought of tributers, 2631, 17s. = 53151, 12s.; leaving loss, 561, 12s. The directors regret having again to announce a loss. But it should be remarked that no amount has been charged to capital account, all expenses having been charged to revenue. These expenses include a sum of 831, paid for additional oxen.

for gold bought of tributers, 2621, 173. — 5315, 122.; leaving loss, 554, 123. The directors regret having again to announce a loss. But it should be remarked that no amount has been charged to capital account, all expenses having been charged to capital account, all expenses having been charged to revenue. These expenses include a sum of 531, paid for additional coefficient of the control of

paying mill ore.

ORGANOS GOLD.—Mr. J. G. Green, the company's superintendent, writes under date Jan. 8 and Jan 30:—I beg to enclose involce of bar of gold No. 10. Said bar of gold is result of crushing:—100 tons of Constancia stuff, producing 50: css. = 55 css. per ton; 40 tons 8 occror stuff, producing 30: 8 css. = 77 css. per ton; 140 tons 8 occror stuff, producing 30: 8 css. = 77 css. per ton; 140 tons, producing \$9:5* css.—Constancia: Buena Ventura level has been extended 13 ft. for the month, and has much improved, The end now carries a nice rib of mineralised quarts, but as yet not sufficiently wide to be of any value We are, however, saving the little quartz that is produced. I hope in my next report to say something cheering with regard to the Buena Ventura, as the indications are extremely favourable for a great improvement. I have carefully dialled and measured the driving, and find we are 12 fms. from coming under the winze sunk in the Choro, and which is reported rich. I am making arrangements to sink this winze, and so communicate this working with the Buena Ventura level.—Rogers' level has been extended \$ ft. This end is exceedingly weither levels of the Contatanci apart of the company's property. I look forward to the extension with much interest. At Socorro Mine we have continued the openings on the back of the lode; everything indicates the presence of riches. The veln is discovered for 20 fms. in length, and gives a good colour in the batten all along the back for this length. We are doing all we can to bring mineral down from this mine with mules, but it is slow work, not for want of 'stuff, but the means of conveying it to the mill.—Trauway: I have commenced taking out timber for sleepers and rails for the projected tramway, and every effort will be made to bring this importunt part of the company's holding into full operation.

In conclusion, I can only say that I never had more confidence in the future of the company's properties than now; and, as you are aware, I have been pretty strong

fact, the mine, owing to the very economical manner in which it can be worked, has been self-supporting during the last twelve months, notwithstanding we has been self-supporting during the last twelve months, notwithstanding we had practically no stoping ground or reserves available, owing to circumstances explained at different times. Now the necessary funds are provided, exploring on the principal veins will be prosecuted with all energy and force available, and I think I am pretty safe in predicting good results. No prophesying is required; I simply base my calculation on what we are now doing. Our mill has proved itself capable of making ½ oz. stuff pay all expenses. I have done all in my power to show the shareholders the faith I have in their property, and they cannot be acquainted with the conditions under which I have worked almost from the commencement, otherwise they could not entertain a doubt of their value of their property. As you are aware, it is with no idea of profit that I speak, because I could easily get an easier situation and a better paid one. I simply wish to make my words good—that the Organos Gold Mines (Limited) are possessed of a property capable of paying large profits. We shall commence orusing from the open-cast again next week, and I have no doubt but that the returns for February will be satisfactory.

FESTARENA UNITED GOLD.—The gold returns for the month of March were as follows:—Pestarena District, 180 ozs. 19 dwts. 12 grs., from 278 tons of ore, equal to 13 dwts. 13½ grs. per ton.—Val Toppa District, 117 ozs. 5 dwts., from 322 tons, equal to 7 dwts. 5½ grs. per ton.; Val Toppa District, 117 ozs. 5 dwts., 12 grs., to be ton.

FIESBEFITTE.—Manager, March 31: Not much change has taken place in

ore, equal to 13 dwts. 13½ grs. per ton.—Val Toppa District, 117 css. 5 dwts., from 322 tons, equal to 7 dwts. 5½ grs. per ton.—Val Toppa District, 117 css. 5 dwts., from 322 tons, equal to 7 dwts. 5½ grs. per ton.; total, 306 crs. 4 dwts. 12 grs., obtained frem 600 tons of ore amalgamated, showing an average yield of 10 dwts. 4½ grs. to he ton.

PIERREFITTE.—Manager, March 31: Not much change has taken place in the mine since my last report, with the exception that the lode in the back of No. 1 level, north-west of the slide, is not so good as it was, and that the ground is becoming harder in the stope back of the intermediate level north-west. The lode in the south-cast intermediate level continues to yield quite 4 tons of silver-lead to the fathom, but the run of the ore is not regular. The lode is very largin in this part of the mine, and the mineral makes in bunches. I am of opinion that we have here the same course of ore as that in the No. 1 adit level, which gave such riches the early part of last year. We are not breaking a large quantity of ore at this point, as, until there is room made, only a few men can work there. I hope soon to be able to resume the criving of the No. 2 adit level to get into the same run of ore ground as we have in the intermediate level above. A few extra miners have arrived, and I expect some more shortly. The ground in the surface level has become lately a little easier for driving, and the men are making a little more progress than has been the rule for some time past. The No. 2 level, north mine, is without change.

RICHMOND CONSOLIDATED. Telegram, April 1: Week's run (one furnace), 39000 from 244 tons of ore; refinery, \$11,000.

RUBY AND DUNDERBERG CONSOLIDATED.—R. Rickard, March 5: There is nothing new to report from the mines since my last except the Lord Byron tunnel which has pease through some ore of good grade, about 2½ ft. wide, assaying over \$30 per ton, chiefly sliver. The tunnel has not holed to the cave; work has been auspended in the end for the time being so

constitute delited of authorities of them, and photologies indicated with a product of the production of the production

ROYAL AQUARIUM.—The programme prepared for the Easter holidays, including musical selections, acrobatic and gymnastic exercises, and various other amusements, will not fail to be attractive to readers of the Mining Journal visiting the Metropolis during the coming fortnight.

PROVINCIAL STOCK AND SHARE MARKETS.

PROVINCIAL STOCK AND SHARE MARKETS.

CORNISH MINE SHARE MARKET.—Mr. S. J. DAVEY, mine share-dealer, Redruth (April 3), writes:—We have had more spirit in our market this week. Dolcoaths further advanced 4, West Frances advanced 34. East Pools, South Frances, and Agars have been in better demand and firmer. To-day Dolcoaths, South Frances, West Frances, West Kitty, Wheal Agar, and West Basset, are scarce at quotations. Subjoined are the closing quotations:—Carn Brea, 23 to 23; book's Kitchen, 10 to 12; Dolcoath, 75 to 76; East Pool, 41 to 42; Killifreth, Ss. to 7s. 6d.; New Cook's Kitchen, 13 to 14; New Kitty, 13 to 14; North Buny, 2s to 4s.; Polberro, 13 to 13s; South Condurrow. 3% to 9; South Crofty, 2 to 3; South Frances, 38 to 58; Tincroft, 33 to 4; Trevanance, 2 to 24; West Basset, 24 to 23; West Frances, 11 to 12; West Kitty, 12 to 124; West Polbreen, 3 to 1; West Jordice, 3t to 4; Trevanance, 2 to 24; West Polbreen, 3t to 1; West Jordice, 3t to 4; West Seton, 33% to 4; Trevanance, 2 to 24; West Polbreen, 3t to 1; West Jordice, 3t to 4; West Seton, 34% to 4; Wheal Agar, 13% to 13%; Wheal Basset, 3 to 34; Wheal Grenville, 8 to 5%; Wheal Cates, 34 to 3; Wheal Kitty, 3t to 3; Wheal Coates, 34 to 3; Wheal Kitty, 3t to 3; Wheal Cates, 34 to 3; Wheal Kitty, 3t to 3; Wheal Cates, 34 to 3; Wheal Cates,

Wheal Kitty, 34 to 34; Wheal Uny, 34 to 35; Wheal Coates, 34 to 36.

— Messrs. Abnorr and Wickerr, stock and share brokers, Redruth (April 3), write:—The market has been fairly active this week, and there has been a good enquiry for Dolcoaths, East Pools, South Frances, West Frances, and Wheal Agars, and to-day's rates show a marked improvement. Caro Breas, West Basset, Tincroft, and Wheal Basset have been in request. Closing quotations herewith:—Camborne Vean, 34 to 34; Cara Breas, 24 to 23; Cook's Kitchen, 10 to 11; Dolcoath, 75 to 76; East Blue Hills, 3s. to 5s.; East Pool, 413/2 to 424; Killifreth, 34 to 34; New Cook's Kitchen, 10 to 12; North Busy, 3s. to 5s.; South Orofty, 2 to 24; South Kitty, 15 to 2; North Busy, 3s. to 5s.; South Orofty, 2 to 24; South Kitty, 12 to 12/3; West Poldice, 3/2 to 3/3; West Basset, 2/3 to 2/3; West Kitty, 12 to 12/4; West Poldice, 3/2 to 3/3; West Basset, 2/3 to 2/3; Wheal Basset, 3 to 3/3; Wheal Grenville, 5 to 5/2; Wheal Agar, 13/4 to 13/3; Wheal Basset, 3 to 3/3; Wheal Grenville, 5 to 5/2; Wheal Kitty (85. Agnes), 3/2 to 3/4; Wheal Peevor, 3/2 to 1; Wheal Uny, 3/2 to 3/4; West Cookin, 3/5 to 4.

— Mr.: M. W. Bawwar, Liskeadra (April 3), writes:—The mining market is

South Condurrow, \$\frac{3}{3}\$ to \$\frac{3}{3}\$; Wheal Teevor, \$\frac{3}{3}\$ to \$1\$; Wheal Uny, \$\frac{3}{3}\$ to \$\frac{3}{3}\$; \$\frac{3}{3}\$; to \$\frac{3}{3}\$; \$

Uny, ½ to ½.

— Mr. John Carrer, mine sharedealer, Camborne (April 3), writes:—In the share market there has been a better demand at advanced prices for Dolcoath, East Pool, South Frances, West Frances, and Wheal Agar. Subjoined are the closing quotations:—Carn Brea, 2½ to 2½; Cook's Kitchen, 10 to 11; Dolcoath, 5 to 78; East Pool, 41 to 42; Killifreth, 8s. to 8s.; New Cook's Kitchen, 1to 1½; New Kitty, 1½ to 1½; South Condurrow, 3½ to 9; South Crofty, 2½ to 2½; South Frances, 9to 9½; Tincroft, 3½ to 3½; West Baset, 2½ to 2½; West Frances, 10 to 11; West Kitty, 12½ to 12½; West Saset, 3 to 4½; West Police, ½ to ½; Wheal Agar, 13 to 13½; Wheal Masset, 3 to 3½; Wheal Grenville, 5 to 5½; Wheal Kitty, ½ to ½; Wheal Crown, 1 to 1½.

MANCHESTER.— Measra, JOSEPH R. and W. P. BANNER.

Seton, 3½ to 4½; West Poldice, ¾ to ¾; Wheal Agar, 13 to 13½; Wheal Bassat, 3 to 3½; Wheal Grenville, 5 to 5½; Wheal Kitty, ½ to ¾; Wheal Evevor, 1 to 1½.

MANCHESTER.— Messrs. JOSEPH R. and W. P. BAINES, share-brokers, Queen's Chambers, Market-street (April 3), write:—The advance in home investment and speculative securities continues; but the stimulus is derived this week more from the influence of cheap money and supply of stock being small than from traffics, the latter not being encouraging, exhibiting a condition of trade which can hardly be expected to h·9 prospective value. The reduction of the Bank rate will probably give a further impetus to prices, unless a stronger counteracting influence presents itself. Foreign funds are nearly all better, the only adverse changes being a fall of ¼ in Russians and ¾ in Argentine Republic Public Work Bonds, whist Argentine Bard Dollar Bonds are 1½; Egyptian Unified. ¾; distor Preference, ¾; ditto Daira Sanieh, ¾; Italian, ½; Spanish, about ¾; Mexican Three per Cent., ¾; and Turkish Stamped, ½, higher. Mexican Ralis, notwithstanding another 7300. decrease in traffic, have made a decided advance, the rise on the week being over 6 per cent. This is apparently caused by the success of the debenture issue, and as this will militate against dividends on ordinary wook, probably a relapse is likely to ensue when the prestige of the new issue is worn off. Miscellaneous investments have not produced a large number of transactions, business doubtless being restricted in face of the account and approaching Easter holidays.

BARES continue to have a fair share of the business going forward, and prices show no actual declines, but National Provincial, New, are ¾; Marchester and County, ½; Marchester and Salford, ½; to ½; and Union Bank of Marchester ½; higher.

INSURANCE.—Bmall business done, but some activity is noticeable in revisions of quotations. Buyers of Lancashire have advanced ½, and sellers of Positives have reduced their demands 3½, per share.—Higher: British and Fore

Insurance, 1/4.—Lower: Liverpoot and Condon and Crobo, 2/4 or 2/4 of 1s. 56; Liverpoot and Yorkshire Accident, 1/4; and National Boller, 1/4.

Coal, 1803, &c., AND Mining.—Comparatively a moderate business doing, but balance of movements in prices slightly adverse.—Higher: John Browns, 1/4 to 1/4; Cammeis, 1/4; Catter Livey Lead, 1/4; Robw Vale, 1/4 to 1/4. Lower: Telegraph Construction and Maintenance, 1/4; Ebbw Vale, 1/4 to 1/4. Lower: Telegraph Construction and Maintenance, 1/4; Ebbw Vale, 1/4 to 1/4; and Consolidated Telephone Construction and Maintenance, 1/4.

COTTOS SPINNING, &c., about steady, with a moderate amount of business passing.—Telegraphs: Nothing doing here, and the only changes in prices being a rise of 1/4 in Anglo Ordinary and 1/4 in Globe Ordinary.—Telephones being a rise of 1/4 in Anglo Ordinary and 1/4 in Globe Ordinary.—Telephones is being a rise of 1/4 in Anglo Ordinary and 1/4 in Globe Ordinary.—Telephones is being a rise of 1/4 in Anglo Ordinary and 1/4 in Globe Ordinary.—Telephones is being a rise of 1/4 in Anglo Ordinary and 1/4 in Globe Ordinary.—Telephones is being a rise of 1/4 in Anglo Ordinary and 1/4 in Globe Ordinary.—Telephones is being a rise of 1/4 in Anglo Ordinary and 1/4 in Globe Ordinary.—Telephones is being a rise of 1/4 in Anglo Ordinary and 1/4 in Globe Ordinary.—Telephones is being a rise of 1/4 in Anglo Ordinary and 1/4 in Globe Ordinary.—Telephones is being a discount of 1/4 in Globe Ordinary.—Telephones is being a discount of 1/4 in Globe Ordinary.—Telephones is considered and divaried the angle of the ordinary and 1/4 in Globe Ordinary.—Telephones is considered to 1/4 in Globe Ordinary.

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SCOTCH MINING AND INDUSTRIAL COMPANIES SHARE MARKETS.

STIRLING.—Mr. J. GRANT MACLEAN, stockbroker and ironbroker (April 3), writes:—During the past week prices have generally advanced, owing to the easy state of the money market, scarcity of

(April 3), writes:—During the past week prices have generally advanced, owing to the easy state of the money market, scarcity of stock, and favourable spring weather. Trade generally, however, is still dull, but the feeling is perhaps a little more hopeful.

In shares of ceal, iron, and steel companies the principal business has been in Marbeilas, which declined to 32s. on the negociations for a renewal of the lease falling through, but they have since recovered to 46s. Bull's Iron are at 20s. to 30s.; Chapel House, 4s. to 6s.; Cardiff and Swanes, 47s. 6d. to 52s. 6d.; Liyavi and Tondu, 72s. 6d. to 77s. 6d.; and Wigan (75 paid), 32 to 34.

In shares of foreign copper and lead concerns prices are generally belter. Tharsis Pave improved from 6t. 5s. 6d. to 6t. 9s. 6d. Hornaches offered. Arisonas have declined from 12s. 3d. to 10s. 3d.; Brastbergs, 30s. to 22s. 6d.; Corporation of South Australia, 3s.

In shares of home mines there has been more business doing, but prices do not show much alteration. Anderton are at 12s. 6d. to 17s. 6d.; Camborne Yean, 5s. to 7s.; East Craven Moor, 1s. 3d.; Great Laxey, 10½ to 11; Great Holway, 30s. to 40s.; Grogwinion, 3s.; Halkyn, 6s. prem.; Killifreth, 5s. to 7s. E. North Blue Hills, 9d.; New Cook's Kitchen, 31s.; New Terrers, 7s. 6d. to 12s. 6d.; New Caradon, 2s. 6d. to 3s. 6d.; Old Shepherds, 519s. to 2ts.; Polcrebo, 3s.; Phenix United, 20s. to 25s.; Parys, 1s. 6d. to 2s. 6d.; Tegonires, 1s. 3d. to 2s. 6d.; Treaumance United, 37s. 6d.; 6s.; Sortridge, 6d.; Tregonires, 1s. 3d. to 2s. 6d.; Wheal Caradon, 2s. to 3s.; South Orolty, 40s. to 60s.; South Devon, 4s. to 6s.; Sortridge, 6d.; Tregonires, 1s. 3d. to 2s. 6d.; Wheal Lusky, 1s. 9d.; Wheal Contee, 9s. to 6s.; Wheal Grobor, 3ss. to 3s. 6d.; Wheal Lusky, 1s. 9d.; Wheal Contee, 9s. to 6s.; Wheal Grobor, 3ss. to 3s. 6d.; Wheal Lusky, 1s. 9d.; Wheal Grobor, 5s. 6d.; Comobilidated Silver, 1s. 1s. 1s. 2s.; Wheal Grobor, 5s.; 6d.; 1s. 1ss.; 1

EDINBURGH.-Messrs. THOS. MILLER and SONS, stock and share brokers, Princes-street (April 2), write: —Railway ordinary stocks show a general advance since last report. Grand Trunk stocks have show a general advance since last report. Grand Trunk stocks have been much better on the publication of the monthly traffic statements for January and February, but the best prices have not been maintained. Olydesdale Bank shares are lower. North British and Mercantile Insurance have advanced from 27 to 27%, and the new shares from 28 to 28%. Prairie Cattle shares of all issues have improved 2s. 61, to 4s. 6d. Swan Cattle are 2s. 6d. down. Arisonas have fallen from 12s. to 11s. Arniston Coal from 17% to 11%, Fife Coal from 10 to 9, Bio Tinto from 19 to 18%, Steel shares from 7% to 7%. Tharsis have risen from 12s. to 12ss., Lanark Oli from 5% to 5%, Midlothian from 8% to 8%. Dalmeny have declined from 22% to 22. Edinburgh Tramways have advanced from 91% to 9%.

IRISH MINING AND MISCELLANEOUS COMPANIES SHARE

CORK.—Messrs. J. H. CARROLL and SONS, stock and share brokers, South Mall (April 3), write:—Markets improved again to-day. Great Southerns and Westerns changed hands at 116, and Midlands at 81½ to 81½. Great Northerns, 114; Wicklows, 63½. Bandons unaltered. Bantry Extension shares were taken at 10½ ex div. Hen Valley stock remains 104½. No change in Bank stock, Provincials, or Hibernians. National Banks were done at 24½, and Munsters at 6.5-16ths to 6½. Alliance Gas in demand at 18½. Cork Gas steady at 7½. Gouldings changed hands at 8½. Levys remain 6. Lyons and Co. shares fully paid were offered at 6½, and Gresham Hotels asked for at 3½. Dalys unchanged. Brewery shares were done at 4. Lyons and Co. Debentures remain 102. Harbour Board Debentures wanted at 102 to 102½. wanted at 102 to 1021.

Mining Correspondence.

BRITISH MINES.

BELFORD UNITED.—H. Tresise, April 1: Bridge Lode: The shaftmen are busily engaged in putting in skiproad to the 75; when completed the driving of this level west will be resumed, and I hope to cut the lode very shortly. Owing to an accident at the cas al we have been deprived of water for a few days, but the mine is now in fork. In the 62 we t the lode is very promising, producing saving work. Two stopes behind the end are worth 54, and 74, per fathom, or 2 tons of ore each. In the 62 cust the ground is very congenial for the production of copper ore, and the lode is yielding ore of good quality. Two stopes behind the end are worth 54, and 64, per fathom. Three stopes at the 42 are worth 104, 184, and 77, per fathom respectively. We have sampled 137 tons of ore; 137 tons from the Bridge lode and 20 tons from the north lode, of fair average quality.

quality.

CARN OAMBORNE.—W. C. Vivian, April 3: In the 105, east of ergine-shaft cross-cut, there is some improvement, and the lode, which has been small, is increasing in size, and contains some good copper ore. In the same level weat the lode is also increasing in size (thaving been small), but is not yielding ore at

CARN OAMBORNE.—W. C. Vivian, April 3: In the 105, east of engine-shaft cross-out, there is some improvement, and the lode, which has been small, is increasing in size, and contains some good copper oce. In the same level west the lock is also increasing in size (having been small), but is not yielding ore at the lock of lock of the lock of lock of the lock of lock of the lock

461, per ton of black tin, We are steadily increasing our number of tributers, and shall continue to do so a suitable men apply. We sold on March 221 to translate the state of the state o mine continue without change to notice since last week's report, and all our work at surface is being pushed on with dispatch.

— M. Bawden, April 3: Betting Report: The 117, to drive east, by six men, at 121, per fathom; lode large, and producing some good stones of copper ore and 1 ton of arsenical mundic per fathom. The 95, to drive east, by six men, at 122, per fathom; the lode here is improving, and will yield 5 tons of arsenical mundic per fathom and some good stones of copper ore. The 70 east of cross-undid per fathom and some good stones of copper ore. The 70 east of cross-undid per fathom, and the per fathom and some good stones of copper ore. The 70 east of cross-undid per fathom, and the per fathom and the per fathom and the per fathom. The 95 tons of arsenical mundic per fathom, and the per fathom, and the per fathom is to per fathom; lode yielding 10 tons of arsenical mundic per fathom, and the per fathom; lode yielding 10 tons of arsenical mundic per fathom, and the per fathom, and the per fathom, and the per fathom is to per fathom; lode yielding 10 tons of arsenical mundic per fathom, and the per fathom is to per fathom; lode yielding 10 tons of arsenical mundic per fathom, and the per fathom is per fathom, and the per fathom is to per fathom; lode yielding 10 tons of arsenical mundic per fathom, and the per fathom is to per fathom; lode yielding 10 tons of arsenical mundic per fathom, and the per fathom is to per fathom. No. I stope, in back of 10 ditto, by four men, at 51. 12, per fathom. No. I stope, in back of 10 ditto, to four men, at 51. 12, per fathom. No. I stope, in back of 10 ditto, to four men, at 51. 12, per fathom. No. I stope, in back of 10 ditto, to four men, at 51. 12, per fathom. No. I stope, in back of 10 ditto, to four men, at 51. 12, per fathom. No. I stope, in back of 10 ditto, to four men, at 51. 12, per fathom. No. I stope, in back of 10 ditto, to four men, at 51. 12, per fathom is the per fathom in the per fathom is the per fathom in the per fathom is the per fathom in th

and you, having an axle already purchased, the different fittings by way of iron, &c., should be ordered for an additional 12 heads, and the stamps erected forthwith. The ground is of a very congenial character for the production of mineral, and easy for exploration. We can keep them going, and, with a slight improvement in the lode, which I hope we shall have as we go forward in the hill, very satisfactory returns will be made. We shall sell a parcel of tin next week.

GREAT HOLWAY.—W. T. Harris, April 3: Rosicell's Shaft: The 95 north has been extended 3 fins 4 ft, 6 in. No material change has taken place in the obak racter of the ground, and good stones of lead are found in the lode. The general appearance of the forebreast offers great encouragement for continuing the driving to the junction. Set to six men, at 80. per fathom.—Level Engine-Shaft: In the 80 level east the lode is 1/5 ft. wide, containing lead and blende in appearance of the forebreast offers great encouragement for continuing the driving quantities. In the pitch in the back of this level the lode is yielding 10 cwts of lead and 1 ton of blende per fathom. Set to four men, at 120s. and 10s. per ton respectively. The 60 west No. 4 in back is at present driving to communicate with No. 1 pitch, and when effected will facilitate operations very considerably. Set to four men, at 120s. per fathom, the lode yielding 15 cwts, seek to 12 men, at 60s, are reported in my last—4/5 tons of lead and 1/5 ton of blende per fathom. Roset to 12 men, at 60s, are per ton the first, and 30s, per ton the latter. No. 3 pitch in bottom of this level is producing 10 cwts, of lead and 1 ton of blende per fathom. Set to six men, at 100s, and 40s, per ton respectively. No. 10 pitch in back of this level is producing 15 cwts, of lead and 1 ton of blende, Reset to four men, at 120s, and 40s, per ton respectively. No. 10 pitch in back of this level is maintained and is now producing 1/5 ton of blende per fathom. Set to six men, at 100s, and 40s, per ton respectively. Howe

in the tribute pixenes. We have commoniced with the delivery of the last sale of ore, and are busy preparing another parcel for market. Machinery working satisfactorily.

HINGSTON DOWN.—T. Richards, April 1: In the 52, east of the engine-shaft, the lode in its general character continues unchanged, and is producing capel, quarts, mundic, &c., with a little copper ore intermixed. This level is now getting in under the most promising part of the lode seen in the level above. The south cross-cut towards the No. 2 lode is extended 20 ft.; the ground in the present end has much the same appearance, and fair progress is being made.

KILLIFERTH,—J. Michell, J. Tamblyn, April 3: Engine-Shaft: The lode in the 90 end west is still small and disordered. In the 70 end west the lode has improved; it is now 5 ft. wide, and worth 164, per fathom. Being close under the winze we shall put the men to rise to communicate the same, as we are prevented from sinking any further in consequence of the water. The lode in the bottom of the winze is from 4 to 5 ft. wide, and worth 154, per fathom. The lode in the 50 end east is 1½ ft. wide, with a very kindly appearance. In the 30 end east the lode is small and poor.—Haw kes' Shaft: Having out the plat in the 50 we have now resumed driving west, where the lode is 3 ft. wide, and worth 54, per fathom—a very promising-looking lode. We have also put a pare of men to stope in the back west of shaft, where the lode is worth 54, per fathom. The stopes in the back of this level are worth 104, per fathom. We have still a large lode in men as 10 in 14. Our other pitches are looking much the same as for some time past.

KIT HILL GREAT CONSOLS.—Isaac Richards, April 3: In the Tunnel level in the 10 in th

topes in the back of this level are worth 10½ per fathom. We have still a large lode in the 40 end west, and letting out water freely, but not of much value, the stopes in the back of this level, east and west of rise, we have set on tribute to eight men, at 9s. in 14. Our other pitches are looking much the same as for some time past. Past 70 CNSOLS.—Tasaes Richards, April 3: In the Tunnel level the past which is the past of the past

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ahowing signs an improvement, and letting out more water. It must be borne in unitd hat the fate discoveries both east and west and the north lode at the 30 are sit standing intact, and the men are developing on new points to intersect the nrth lode nearer Highburrow shaft.

POLROSE. "H. Bennetts, April 2: In the past week we have made good progress with our neground operations. We have cut the south part of the lode in the wester errors cut, and I am pleased to say it is of a most kindly description, and show an improvement in its composition upon what it was to the east ion, and show an improvement in its composition upon what it was to the east of the shaft. It is a seen it is fully 2 ft. wide, composed chiefly of peach and or the shaft. It is a seen it is fully 2 ft. wide, composed chiefly of peach and sown of the shaft. It is a seen it is fully 2 ft. wide, composed chiefly of peach and is a single saving we'k for the west on it as fant as possible; it looks as though it lode. We sha now drive west on it as fant as possible; it looks as though it of mundic, pach, &c., and producing a little tim.

PRINCE G WALES. S. Roberts, April 2: The men in both the 102 ends east and west, are driving by the side of the lode, consequently there is no change hereto report. The lode in stope in the back of the 102 west, east of change hereto report. The lode in stope in the back of the 102 west, cast of stope, west) rise, is 5 ft. wide, worth 2 tons of copper ore and 44, her fathom for tim. Lode in No.2 4 ft. wide, worth 2 tons of copper ore and 44 for tim. In the 90 west the men are still driving in the new silver lode (which is unchanged this progress is 5 ft. wide, worth 2 tons of copper ore and 40 which is unchanged the since last week), leaving the main lode standing south. We intend blasting it down nextweek. In the winze sinking by the side of the lode in the bottom of this level sir progress length manile provides and provides and stopes weakly the mine provides of copper and mundic.—Stephen's Engine-Shaft: We are

shaft, such a mail portions of copper and mundic.—Stephen's Engine-Shaft; we are pushing on the cross-cut south at the 45 fm. level with all possible speed in a god channel of mineralised ground, which looks well for the lode when interacted.

SOFTH CONDURROW.—Wm. Rich, Wm. Williams, H. King, April 2: In the 2, west of Marshall's shaft, the ground is favourable for driving towards the south part of the lode. The 66 end west is in a strong kindly lode, worth 81, per fathom, and the ground easy for working. The 78 end west is upproductive. We hope to hole the winze sinking below this level in a few days. The stepe in the back of the 78, east of shaft, is worth 121, per fathom. The 30 end west is local carries a little tin, but not enough to value. The slope in the back of the 93, east of king's shaft, is worth 151, per fathom. The 30 end was it is in savourable in the 80 end east yields low quality tinstone. The stope in the back is worth 101, per fathom. The 80 end, west of Plantation, is unproductive. The ground is favourable in the 80 end east is worth 102, per fathom. The 60 end east is worth 103, per fathom. The 60 end east is worth 104 per fathom. The 60 end east is worth 122 per fathom. The stope in the back of the 50 is worth 122, per fathom. The stope in the back of the 50 is worth 122, per fathom. The stope in the back of the 50 is worth 122 per fathom. The stope in the back of the 50 is worth 122 per fathom. The stope in the back of the 50 is worth 122 per fathom. The stope in the back of the 50 is worth 124 per fathom. The stope in the back of the 50 is worth 124 per fathom. The stope in the back of the 50 is worth 124 per fathom. The stope in the back of the 50 is worth 124 per fathom. The stope in the back of the 50 is worth 124 per fathom. The stope in the back of the 50 is worth 124 per fathom. The stope in the back of the 50 is worth 124 per fathom. The stope in the back of the 50 is worth 124 per fathom. The stope in the back of the 50 is worth 124 per fathom. The stope in the back of this level

WESTMINSTER CONSOLS—J. Woolcock, March 25: Men sinking No. 1 shaft in the old man's sett. We have an exceedingly promising lode, but not so much ore as I would expect from such a lode as we now have. I purpose sinking 2 yards more, then drive north and south on the course of the lode. In both these drivings we may meet with a large course of ore any day. The matrix is such that it cannot fail to produce ore, and, moreover, we have found in both drivings above, the ore going down, our drivings will come under those workings, consequently we shall meet with this ove. There is no lear as to the result of the mine. Look out for a startling discovery whom we begin to drive, which will be in about two weeks hence.

WEST OARADON.—N. Richards, April 2: The branch we are rising on south of Jope's lode at the 33 is slightly improved since my last, and will now yield from 's to'l toon of copper ore per fathom, and appears to be making away west. The rise and stopes in the back of the adit level on Gilpin's lode are yielding together about their usual quantity of copper ore—3't, tons per fathom. A steps in the bottom of this level will yield I ton of ore per fathom. The rise in the back of the midway level, on this lode, will yield fully 1 ton of good ore per fathom.

WEST OREBOR.—J. Andrews, April 2: The lode in the engine-shaft sinking below the 80 is 3 ft. wide, composed principally of quartz, capel, and mundic, with occasional stones of copper ore. The lode in the 80 west is 6 to 7 ft. wide, but as the north part of the lode is hard capel we shall now carry only 3 ft. of the south part so as to make better progress in driving.

WEST GODDIPHIN.—T. Hodge, Prancis Hodge, April 2: The 40 and 50 on Pink lode are holding out good promise, producing fair quality tinstone. In the other bargains there is no change since our last. WEST FOLDREEX.—Wm. Vivian, April 3: In the 40 driving west the lode is producing good stones of tin, but not to value. The water is going down in the engine shaft. I hope to resume the sinking again in a few days. WEST PATELEY BRIDGE.—David Williams, April 3: We have reached the main lode in the south cross-cut from bottom of east Grassington shaft, within the time specified in my report; and so far as seen into, the lode is all that can be desired, being 3 ft. wide, and filled with limespar, gossan, and rich stones of lead ore, and have commenced drivages both ways upon its course. The cost-sheet will be sent you on Monday or Tuesday at the latest, by which time I hope to be able to write you at more length, and that we shall have commenced drawing orestuff to surface. I am, however, so pleased with the general appearance and character of the lode, that I have commenced preparations for laying out dressing-floors, of course on a small scale to begin with, and gradually increased as required.

to be able to write you at more tength, and that we shall have commenced unawing orestuff to surface. I am, however, so pleased with the general appearance and character of the lode, that I have commenced preparations for laying out dressing-floors, of course on a small scale to begin with, and gradually increased as required.

WEST WHEAL PEEVOR.—W. T. White, April 3: The new lode now being opened on which was recently cut in the 35 cross-cut south is looking more promising as we drive east and west on it. We only commenced to drive on this on Monday, consequently the distance yet that we have opened is small, but sufficient for us to say by a vigorous development we believe it will be found productive. It is now producing both tin and copper. In Wheal Peevor we have met with a new lode, north of our engine-shalt, which is a productive tin lode. This we shall also see in this mine by the continuation of the 45 cross-cut. We are now driving to cut the old north lode, which we hope to reach in about two months hence. This we certainly consider to be an exceedingly good point. We are also pushing on the driving of the 60 cross-cut south. There is no particular change in the lode in the 43 and 60 fm. levels end driving west, but from the nature of the ground we believe there will be soon. WHEAL BASSET.—W. C. Trevena, March 31: I beg to hand you our setting report of Saturday last:—Lyles' engine shaftmen are employed in cutting the top and bottom plots in the 180, which we hope to complete by the end of this month. The 170 is being driven west of the cross-cut, by six men, at 121, per fathom, where the lode has a promising appearance, and worth for tin 122, per fathom, and worth for tin 104. per fathom. The rise going up behind this end is worth for tin 104. per fathom, and stoping by six men, at 84. per fathom, and worth for tin 104. per fathom, and stoping by six men, at 84. per fathom, and west of rive, is worth for tin 122, per fathom, and solving by six men, at 84. per fathom and 6s. per toh of stuff. The 137 i

Our tribute ground at the 70 fm. level continues to produce its usual quantity of copper.

WHEAL CREBOR.—H. Phillips, P. D. Holman, April 1: The lode in the new shaft sinking below the 144 continues to carry mundic, spotted with copper ore. Good progress is being made in driving the 144, east of new shaft, to communicate with the winze sinking below the 132. We are forcing on this point by the side of the lode; the part carried contains spar and mundic, intermixed with copper ore. The lode in the 144, driving west of new shaft, will yield 7 tons of ore and 4 tons of mundic per fathom. The lode in the stope in the back of this level will yield 8 tons of ore and 4 tons of mundic per fathom. There is no lode taken down in the winze sinking below the 132, east of No. 2 winze, since last reported—3 tons of good ore per fathom. The lode in the 132, driving east of new shaft, will yield 1 ton of ore and 1 ton of mundic per fathom. The stope in the back of this level will yield 4 tons of ore and 3 tons of mundic per fathom. The lode in the stope in the bottom of the 120, east of winze, will yield 1 tons of ore and 3 tons of mundic per fathom. The lode in the stope in the avenual to sink a winze in bottom of the 43, east of measthy leiding 4 tons of ore and 4 tons of ore and 4 tons of ore and 4 tons of mundic per fathom. The lode when driven through at this point was of a strong and masterly appearance, yielding 4 tons of ore and 5 tons

ut change. WHEAL GRENVILLE.—T. Hodge, April 3: I have been all through the mine o-day, and I see no change in either of the bargains worthy of any note since

to-day, and I see no change in either of the bargains worthy of any note since my last.

WHEAL JANE.—Richard Southey, April 3: Since my last good progress is being made in driving the 40 end west on the great flat bde; the local is fully 10 ft, wide, and although it is at present producing low quality tinstuff. I have good reason to believe that ere long a more productive lode will be met with. All the stopes and ends on the Ready Money lode are of just the same value as when last reported on. Our machinery is working well both at surface and underground, and a large amount of low quality thatone is being daily passed through the stamps and treated in the most economical manner with the jiggers. I am pleased also to state the present mode of treating tin ore surpasses anything that ever came under my notice both in efficiency and economy, and it has put this miner came under my notice both in efficiency and economy, and it has put this miner oame under my notice both in efficiency and economy, with a slight increase in the quality or in the price of tin we shall at once be brought into a prolitable state.

TOLIMA MINING COMPANY .- Advices received by the mail of

Less capital expenditure .. \$34,342.6 Net (estimated) profit Equal in sterling to 5521/. 18s. 4d. 833,131 4

Ing grey sliver, the yield being estimated at from 10 to 15 cwts. of 230 css. ore per fathom. This end has communicated with the drive west from Leon's winze projected to meet it. The driving eastward from this winze will now be continued with all possible speed through Rogers' winze and into the eastern ore section under the 70.

80 WEST.—The vein is from 10 to 12 ft. wide, composed of schist and quarts impregnated with pyrites, and letting out much water. The lode having been stripped down to its full width the driving will be continued westwards.

70 EAST.—The end itself has fluctuated considerably, yielding at times from 1 to 2 in. of ore, and frequently becoming quite poor. The lode is mainly composed of dark-coloured schists and quarts strings, and is of considerable size. The full width is not yet proved, as also the yielding capabilities of the north portion of lode by the cross-cut being driven through it. This cross-cut is started at a distance of about 58 fms. east of shafe, and after penetrating the main lode will be carried northwards to Welton's vein, which, judging from appearances in the 80 east, should be found rich at the 70. In reference to the productiveness of the main vein at the 70 east, the main ore shoot appears to be skimming the roof of our level on a very flat easterly dip, and we should expect the level itself to penetrate the heart of this mineral as the driving is extended eastwards on the vein at the 70 at a point 8 fms. west from the present end, however, a strong branch of ore and vein standing on the north side of the level is being stripped down.

strong branch of ore and vein standing on the north side of the level is being stripped down.

70 West.—A considerable improvement has taken place in the drive, the vein is fully 8 ft. wide, strong and kindly, the north portion of the lode being laced with strings of galena.

70 North GROSS-OUT EAST.—At a distance of about 50 ft., north of main level, a branch of vein, carrying small portions of galena has been intersected. The cross-cut is not yet driven the required distance to cut Welton's lode. The bearing of the intersected branch is north, 67 west, with a dip to the north-east of 65.

f 65. ROGERS'S 70 EAST WINZE.—This has been sunk 5 fms. under the 70. The vein 5 ft. in width. The footwall is more vertical than previously, which we condered a good indication, and it carries from 1 to 2 in. of ore. Overlaying this as 10 in. branch of flookan carrying pyrites; the rest of the lode consisting of lack schick and cuarts.

is a 10 ia. branch of nookan carrying pyrites; the rest of the love consisting of black schists and quarts.

70 Back Bropps.—The No. 1 stopes, east of shaft, yield from 25 to 30 cwts. of the mineral proper exports ore per fathom. The No. 3 (easternmost) stopes yield from 25 to tons per cubic fathom of average class ore. In the high breast, where the vein is from now about to be energy 40 FM. East.—The rise extended above the eastern end of the drive has holed into the Esperanza shaft sunk towards it. The vein is somewhat broken and

disordered in its character, and from the sole of the 60 upwards is quite poor. The sinking of this shaft will be continued with all possible dispatch towards the 70 and deeper levels with the object of penetrating the great ore course in its eastern dis-

The sinking of this shalt will be continued with all possible dispatch towards the 70 and deeper levels with the object of penetrating the great ore course in its eastern dip.

60 FM. BOMANZA STOPES.—The total width of vein operated upon is from 20 to 21 ft. from wall to wall. Its section is as follows:—Lying upon the width or south wall of the lode there exists a 12 in. almost solid branch of mineral, principally aspentiferous blende, carrying free red silver. Adjacent to this there is a poor section from 12 to 13 ft. thick of vein matter, chiefly schist and quartz, and almost devoid of mineral. This is succeeded by a magnificent course of ore from 3 to 4 ft. wide, consisting of argentiferous galena, blende, antimonial lead, and pyrites, yleiding streaks and nodules of ruby silver. Overlying the main lead of mineral there are 2 ft. of rock and shale, followed by 12 in. of quarts immediately abutting against the north or hangingwall of the vein. Approximately I estimate the yield at sight at from 5 to 5 tons per cubic fathom, or upwards of 16 tons per running fathom of 350 to 400 ozs, mineral.

60 FM. MAIN LEVEL WEST.—Good progress was made in the driving upon an improving vein, showing traces of ore occasionally, and exhibiting also the polished striated walls frequently associated with mineral at Frias. Up to date the end has been driven 68 fms. from centre of shaft.

60 BOTTOM STOPES WEST.—In consequence of the low grade quality of ore raised here (principally low class blende) this station is discontinued.

50 FM. LEVELS.—The chief operations at this level have been the sinking of the Esperanza shaft until the holing with the 60 was effected.

40 FM. WEST.—This end is 40 fms. from shaft. The vein is 4 ft. wide, composed of dark coloured schist and quartz, with pyrites in association, and letting out a considerable feed of water.

20 FM. SOUTH-WEST.—The vein is 2 ft. wide in the end, composed of carbonate of lime, schist, and quartz, and yielding from 10 to 15 cwts, of export ore per fathom. The lode is libe

fathom. The lode is liberating an increased fee of water. Progress is slow, the ventilation being defective. We are expecting shortly to intersect the western cross course.

20 FM. RISE AND STOPE OVER THE ABOVE.—This station contains a 6 in. branch of ore estimated at :0 cwts. per fathom of 200 css. mineral. This deposit in conformity with that in the eastern section of the mine appears to have a very flat dip, approximately 25° eastwards. This should throw the ore course in depth and eastwards to the proximity of the 60 fm. end.

Surrace Works.—I have to report the completion and setting to work of an additional new series of Hunt's liggers for treating the screened mineral. Material is being prepared for a new drawing wheel for the engine-shaft and the putting together of the 36 ft, crushing wheel is being proceeded with. The machinery and gearing for the driving of the crusher is being rapidly delivered on to the mine.

Sabandla Mine.—I have to report another improvement (after a previous falling off) in the 12 fms. east. The vein is about 2½ ft. in width formed of two branches of quartz, carrying good mixture of blende and lead of saving value. The western drive contains a vein 12 in, in width, composed of dark and light coloured quartz and decomposed granite, but poor for ore. A large quantity of water is issuing from the vein. An lopen cut has been commenced down the quebrads at a distance of about 509 ft. from shaft for the purpose of commencing 12 fm. adit to be driven to meet the 12 cast level. At the distance of about 509 ft. from shaft for the purpose of commencing 12 fm. adit to be driven to meet the 12 cast level. At the distance of about 509 ft. from shaft for the purpose of commencing 13 ft. in width, and no doubt it will exert a favourable influence upon the vein we are driving upon at its intersection in further depth—i.e., at a deeper point in the mine. Moore is visible in this cross-course.

ROCK-DRILLS.—The fixing of the engineers completed, and a trial of the drill has been made at surface

From Mr. John B. Reynolds.—The markets present such promising features that speculators for the rise are gradually regaining their courage. The depression, however, has been of long duration, and the probability is that those who have been steadily buying stocks and shares at very depressed prices are anxiously awaiting their chance of reaping their well-deserved harvest. But the securities put on the market under such circumstances will be quickly taken, and those are probably correct who look for a general advance of considerable importance in the prices of sound investments. But, serious as the depression has been, it must not be forgotten that sound investment stocks—such as people rely on for Income—are very high. True, expansion of trade may cause rails and banks to take a fresh start; but those parties are, we think, wise who hesitate to act on such a probability. The advance will be in those shares or stocks which have been unwisely neglected and in speculative securities of fair merit. Mines are not generally popular; but the elasticity of the mining market is very remarkable. It certainly is a very suggestive circumstance that Dolcoath shares abould have advanced so fast, and to such a high price within such a short time. The mine has recently increased in market value to the extent of 75,000,, which sum represents the total market value of West Kitty, which has the reputation of being the third mine of importance in England, Dolcoath taking the lead and East Pool coming next. It is most important to the holders of shares in tin mines to consider the cause of the rise in Dolcoath shares. Dolcoath is the "Consols" of the mining market. It is supposed that there are more shareholders connected with the tin trade in this mine than in any other in Cornwall. It is openly stated that the rise in the market value of Dolcoath is a certain indication that tin has not only seen its lowest point for a long time, but that considerable animation in that market in which are provided as a certainty. It is further ar From Mr. John B. Reynolds.—The markets present such promis-

WATSON BROTHERS,

MINEOWNERS, STOCK AND SHARE DEALERS, &c 1, ST MICHAEL'S ALLEY CORNHILL, LONDON

1, ST MICHAEL'S ALLEY CORNHILL, LONDON

The New Langford Company has been duly formed, and 20,000 shares taken up, being all that will be allotted at present. The delay in the announcement has arisen through negociations for acquiring an adjoining set considered of importance to the company, and which will now be worked with it. From the two setts down to about 30 and 40 fms. enormous quantities of silver ores were raised. An old mineral surveyor of the district reported—"I have known the property for a number of years, and believe it to be the richest in England for silver. It would have been re-worked long ago but for the exorbitant sum required for the property." Some of the ores at Langford brought 600L per ton. Looking at the above facts it is proposed to drive the 50 east to get under the rich silver ground in the 30 and 40, and also the 30 cross-cut north to cut the side lode. In reference to these two points the agent writes to the secretary and says of the lode now in the 50 east, and which any day might lead to a good discovery—" Drive the present end east, which is now in a very fine lode of great size, direct under or into the new ground below where Malachi had such rich deposits of ore at the 20, 30, and 40 fm. levels; in this way you ought to make great discoveries." Also drive the 36 cross-cut north, which, we are told, is near the lode; "is in good strata, and water flows from the breast of the end, indicating the lode being near." Nearly all the shares in the new company have been taken up at 2s. 6d, per share by shareholders in lode; "is in good strata, and water flows from the breast of the end, indicating the lode being near." Nearly all the shares in the new company have been taken up at 2s. 6d. per share by shareholders in the ofd, and to those who have taken the same number of shares in the new that they held in the old at 10s. per share—the present cost is, of course, 12s. 6d. each, and any discovery in the 50 or 36 fm. levels, which we may fairly expect, to say nothing of the shaft which is down 7 or 8 fms. deeper, in a lode yielding copper, may cause a rise beyond that price, and repay us all with interest. The present company obtain a property with all its expensive machinery complete, and with 10,00% spent, for 1600%; and mines, too, that we are assured, by reports in our possession returned in former times over assured, by reports in our possession returned in former times over 300,000%, of silver above the 40 fm. level. The present experiment, therefore, is a cheap one, and all go into the company alike: that is, at par, and without promotion money.

Can anyone give us any information as to the prospects and price of Cobar and Nymagee Mines in Australia?

The lode at the 80 west at West Crebor is 6 to 7 feet wide.

MINING IN ICELAND.—Our Correspondent at Reykjavik (March 22) writes:—By the steamer Glenwilliam, which arrived here on the 20th, Mr. Warren, an English engineer, who has been engaged in developing the well-known Quebrada copper deposits, arrived here to lay out a line of tramway, and push forward operations for the development of the mineral properties of the Iceland Sulphur and Copper Company. It is very satisfactory to learn that this valuable property is now about to be energetically developed, and it is to be hoped that a due share of attention will soon be directed to the other mineral resources of Iceland.

THE METAL TRADE. TO

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The Mining Market: Brices of Metals, Ores, &c.

	TIN. & s. d. & s. d.
Pig, gms, f.o.b., Clyde 2 2 1	English, ingot, f.o.b., \$7 0 0- 88 0 0
" Scotch, all No. 1 2 3 0	, bars , 88 0 0-89 0 0
Bars Welsh, f.o.b. Wales 5 2 6	refined 89 0 0- 90 0 0
in Tandon & 12 6	Australian 83 12 6- 83 15 0
, Stafford., , 8 15 0- 7 0 0	Banes nom
. in Tyne or Tees 5 2 6	Straits 83 2 6- 83 5 0
, Swedish, London 9 0 0- 9 10 0	COPPER.
Rails, Welsh, at works 5 2 6	Tough cake and ingot. 59 0 0- 60 0
Sirects, Staff., in London 7 15 J- 8 0 0	Best selected 60 0 0- 61 0 0
Plates, ship, in London . 8 5 0- 8 10 0	Sheets and sheathing. 65 0 0- 67 0 0
Hoops, Staff., 6 15 0- 7 5 0	Flat Bottoms 65 0 0- 70 0 0
Nail rode, Staff., in Lon. 6 15 0- 7 0 0	Wallaroo nom.
STEEL.	Burra, or P.O.C nom.
English spring 12 0 0-13 0 0	Other brands nom. 60 0 0- 62 0 0
cast30 0 0-45 0 0	Chili bars, g.o.b 54 7 6- 54 10 0
Bwedish, keg13 0 0-14 0 0	QUICKSILVER.
, fag. ham13 10 0-14 10 0	Flaske, 75 lbs., war 5 10 0
Rails at works 5 0 0	Риозриов Вкомав.
., Light, at works 6 0 C-7 0 0	Alloys I. and II £114 0 0
LEAD.	v. 120 0 0
English pig, common11 10 0-11 12 6	VI. and VII
., L.B11 15 0-11 17 6	,,
., W.B12 0 0-12 2 6	BRASS.
., eheet and bar12 10 0	Wire 61/d
pipe12 17 6	Tubes 6¾
	Yel, met, sheath, & sheets 534-534d.
	Tin-Plates,* per box
	Charcoal, 1st quality 1 10-1 20
Nickel.	2nd quality 0 19 0- 1 0 0
Meta per cwt	Coke, 1st quality 0 16 3- 0 16 6
Ore 10 percent, perton	2nd quality 0 15 3- 0 15 6
SPELTER.	Black per ton 15 10 0
Silesian, ordinary brands14 7 6-14 12 6	
special brands, 14 13 6-14 17 6	at Liverpool 12 0 0-
Bnglish Swansea15 2 6	Black Taggers, 450 of 30 00
Sheet sinc18 0 0	14 × 10
Canada. IX 6s, per box more than IC.	ess for ordinary; 10s, per ton less for

Canada; IX 6s. per box more than IC quoted above, and add 6s. for each Terne-plates 2s.per box below tin-plates of similar brands.

REMARKS .- During the past week the market for metals has remained steady as regards prices, and but a small amount of business has been transacted. The first quarter of the year has elapsed, and there is not the slightest symptom of a forthcoming improveand there is not the slightest symptom of a forthcoming improvement, and we need only refer to the Revenue returns as an evidence of the bad state of trade during the past three months. In addition to other items there is, according to the returns, a decrease in the receipts of customs and stamps, which shows that those reports of quietude and depression which have been so freely circulated have not been without foundation, and it proves only too strongly that profits have been limited in that, the spending power has been curtailed, and further that traders have not had the amount of business to be transacted. But evidences of the bad state of trade at the present time are not wanting, that trade is dull and profits small is an accepted fact. It is not that metals form an exception to the general rule, all markets are the same. If others were good and metals only bad, then there would be a better prospect of a more speedy revival, because the profits made in other branches of commerce would tend to induce traders to turn their attention to metals, particularly in consideration of the present very low prices that are now being quotedail round, but as matters now stand when everything is reported in a dull, lifeless, and inanimate condition it seems almost certials that a sudden improvement is next to impossible. The low prices will in due course help to restore the markets, but after such a prolonged periou of lethargy and inactivity the change when it does occur is likely to be of a steady gradual character, and not a sudden alteration from quietude in briskness.

Business has been extremely quiet for some time cost, and is at least likely

after such a prolonged period of lethragy and mactivity the enange when is used occur is likely to be of a steady gradual character, and not a sudden alteration from quietude in briskness.

Business has been extremely quiet for some time past, and is at least likely to continue so for the next week or more, because the Quarterly Meetings of the iron trade will be held next week, and which will necessarily draw many of the trade down to Birmingham, so that business here is likely to be interfered with. Following on that, there is the Easter holidays, which makes it seem probable that it will be fully the middle of the month before the trade again assumes its orninary condition. The approach of these impediments to trate have a natural tentiency to deter operators from entering into fresh engagements just yet awhile; but there are features in the several marklets which have a far greater weight and influence in causing them to hesitate before purchasing. These we can used with more fully under the heads of the respective metals, and here it is but necessary to observe that their existence is sufficient to make the chances of revival still more remote. In the statistics for the month of March, which have been published this week, there is nothing which calls for any special comment. Iron is seen to be in a rather less favourable statistical position, and copper and tin are somewhat more favourable, in that the visible stock of the former has been slightly increased and of the last two metals somewhat dismislated. Yesterday the Bank rate was reduced to 2½ per cost., and this produced a favourable impression upon our markets, and prices became rather stronger, and slightly more business was transacted. To-morrow the market will be closed, owing to the funeral of the last Duke of Albany.

COPPER.—For the greater part of the week the copper market has remained quiet, but yesterday, upon the announcement of the Bank rate being reduced, more stimulus was given to buying, and slightly better prices were realised. On Wedn

better prices were realised. On Wednesday the Chili charters for the last half of March were advised as 2300 tons, but this quantity, although heavy, did not have the usual effect of weakening the market, which might perhaps be accounted for in the first piace that prices were already very low, and holders were indeposed to make further concessions; and, secondly, that the previous two charters were not heavy, and therefore a somewhat large drafter has been with the previous two charters were not heavy, and therefore a somewhat large drafter has been with the previous two charters were not heavy, and therefore a somewhat large drafter has been wiped off by the reduced Bank rate. Holders are hopeful that with the extremely all the coars and thus higher prices be once more realised. The tone undoubtedly has thereby to a certain extent been improved, and has been further strugthened by the case of easy finance opper may become more numerous, and thus higher prices be once more realised. The tone undoubtedly has thereby to a certain extent been improved, and has been further strugglines by the reduced by 70. tons, the stock then items of easy forms opper may become more numerous, and thus higher prices be once more realised. The tone undoubtedly has thereby to a certain extent been improved, and has been further strugglines by the structure of easy forms opper may become more numerous, and thus higher prices a console and the structure of easy forms opperature to the consoleration of the reduced by 70. tons, the stock then being 45,205 tons, against 45,655 cots on Feb. 27. The stock when taken in comparison with that for the same time of last year is also favourable, being about 2000 tons less, and the price of claims and the same time of last year is also favourable, being about 2000 tons less, and the price of claims and the same time of last year is also favourable, being about 2000 tons is set to see the consolation. The price of the

the public stocks being issued, and showing as they do an increase in the stock, it deters operators from dealing in the market, and prices, though low, do not

the public stocks being issued, and showing as they do an increase in the stock, it deters operators from dealing in the market, and prices, though low, do not tempt purchasers.

It may be urged that the market in reality is better without speculative buying, for then prices are influenced by legitimate and ordinary courses: but that is not so, because while speculative buying is quiet speculative sales are often active, and prices are thus made lower. Advices are often received from Glasgow of an active or extensive business, but lower prices. This clearly indicates that sales are being pressed, and the extensive business doing is carried through at constantly reduced prices. The demand for makers iron is unchanged, and prices are without any preceptible alteration. The Glasgow warrant market has been easier, and after opening steadily at about 42s. 44t., there was business done on Tuesday at 42s. 4d. down to 42s. 3d., there being buyers over at the latter price, and on Wednesday the market was again very dull and quiet, and the price quoted was 42s. 3d. Yesterday being kept as a Scotch holiday there was no market, and the closing figure this afternoon is 42s. 1d. The ahipments last week were 10,930 tons, against 5500 tons for the corresponding week of last year, being an increase of 2493 tons, and which makes the total shipments for the whole of this year 12s,302 tons, against 137,901 tons for the corresponding time of last year, and 145,277 tons for the similar period of 1882. There are still 33 furnaces in blast, and the public stock has been further slightly augmented and amounts to 534,633 tons, against 550 tons last week.

The imports of Middlesborough pig into Grangemouth last week were 5410 tons, against 5500 tons for the same week of last year, being a decrease of 90 tons, and which leaves a total increase for the whole of this year compared with last of 10,079 tons. The Cleveland market is reported quiet, but a tolerably firm one prevails, sellers almost all round maintaining their quotations; but th

TIN, -- The amount of business doing during the past week has not been very large, and prices have not undergone much change. At the beginning of the week the market was quiet, and lower rates the beginning of the week the market was quiet, and lower rates accepted, but since which there has been slightly more disposition to effect purchases, and rather dearer rates have been paid. Referring to the statistics the most striking feature to observe is the excellent deliveries. They were large in February, but still larger last month, amounting in London and Holland to no less than 2211 tons, against 1839 tons in March last year, and 1679 tons for March, 1823. Such excellent deliveries as these give great support to the market, but fears have often been expressed that in the event of these good deliveries not being sustained them with the present rate of supply stocks would greatly accumulate, and lower prices in consequence have to be accepted. But such fears appear to be now almost groundless, because these heavy deliveries have continued for several months past, thus indicating that the actual wants of the trade have developed; and it is a good fleature in the market when supplies are heavy, but deliveries are in excess of them, as has been proved to be in tin for a long while past. Supplies then have been shown to be below deliveries, for not only is there a reduced public stock for the month, but during the past year there has been a decrease of just 3000 tons, clearly proving that there is no cause for anxiety about supplies being in excess of requirements. A very striking and promising feature in the statistics is the visible total stock; on 31st alt. it was 14,335 tons, on 31st March, 1832, 17,350 tons, and on the 31st March, 1832, 17,175 tons, whilst the prices quoted for Straits and Australian on those days were 32. 15s., 964, 10s., and 1074, 5s. respectively, a feature which can scarcely fail to encourage speculative buying in this metal. The shipments last month from Straits to London one 1150 tons; from Australia to London, 650 tons; from London and Holland to America, 250 tons; from Straits to America, 350 tons; and from Australia to London, 650 tons; from London and Holland to America, 50 accepted, but since which there has been slightly more disposition

SPELTER.—The market is quiet, and we quote ordinaries at 141. 7s. 6d. to 141. 12s. 6d. per ton.

LEAD is steadier, with buyers of Spanish at 111. and sellers a little over, while English is quoted at 111. 10s. to 111. 12s. 6d. per ton.

STEEL remains particularly quiet, and business in rails in the North is reported to have been carried through at 41. 12s. 6d. per ton.

TIN-PLATES.—There has been decidedly a better business doing, but prices are unaltered. Considerable transactions are reported in terne-plates, both in cokes and charcoals.

QUICKSILVER.—The importers have lowered their price to 51. 10s., and second-hand parcels are offered at 51. 9s., but there is little demand.

Although the amount of general business transacted in the MINING SHARE MARKET this week is not large it will be seen that two or SHARE MARKET this week is not large to will be seen that two or three mines have had an important advance in prices, and the feeling is that should metals rise, the demand for shares would become greater, and be followed by a more general rise in quotations. The mines dealt in this week include Dolcoath, East Pool, West Frances, West Kitty, Wheal Crebor, West Crebor, Old Shepherds, Organos,

mines dealt in this week include Dolcoath, East Pool, West Frances, West Kitty, Wheal Crebor, West Crebor, Old Shepherds, Organos, Bratsberg, and a few others.

Tin.— So far as statistics go they are all in favour of a rise in tin. Stocks are getting short, the Banca sale in Holland realised 871. 5s., yet in the London market it is only quoted about 831., and until it reaches 85½, the smelters, it is understood, are not disposed to advance the standards for ore.

Tin mines have been more in demand, and a further rise of 51. Fer share has taken place in Dolcoath. West Frances have also risen 21.; East Pool, 21.; South Frances, 21.; West Frances, 32. per share. Carn Brens are quoted 2½ to 2½. Cook's Kitchens are firmer at 10½ to 11½. Dolcoaths have further advanced to 74, 76, making a rise of 151. in the month, and the move still appears to be upwards. The dividend on March 3 was 10s. per share; the next is expected to be over 11. East Lovell, ½ to 1. East Pools have advanced to 41, 43; East Blue Hills, ½ to 3; Killifreth, ½ to ½; New Kitty, 1½ to 1½; North Blue Hills, ½ to 3; South Condurrow, 8½ to 9. South Frances have advanced to 9½, 10.

Tincroft, 3½ to 3½; West Basset, 2½ to 3; West Frances have advanced from 8 to 11, 12; West Kitty, 12 to 12½; Wheal Basset, 3 to 3½; Wheal Grenville, 5 to 5½; Wheal Kitty, 12 to 12½; Wheal Basset, 3 to 3½; Wheal Grenville, 5 to 5½; Wheal Kitty, 12 to 12½; Wheal Basset, 14 the Heal Comford and North Tresavean a call of 11. 11s. 6d. per share (35231.) has been made to clear off all liabilities. The agents hopes to double their returns and pay costs. Trevaunance, 2 to 2½; the ledge in the 55 cross-cut still holds good. Polberro. 14 to 14; the 15 control of the control o

share (35231.) has been made to clear off all liabilities. The agents hopes to double their returns and pay costs. Trevaunance, 2 to 2½; the lode in the 55 cross-out still holds good. Polberro, 1½ to 1½; good progress is being made here; the new engine-shaft is now being cleared to sink to the Pink lode. Mounts Bay, 4s. to 6s.; Tresavean, ½ to ½; South Kitty, ½ to ½; Phoenix, 1 to 1½. Wheal Agnes have advanced to 13½, 14; at the meeting in Cornwall held this day a profit was shown of 17071. 7s. 1d. on three months' working, and a dividend of 5s. per share was declared. The credits were 60411., and the costs 43241., so that after the declaration of the dividend 2441.

Colombian Hydraulic, \(\frac{1}{2}\) to \(\frac{3}{2}\); Colorado United, \(2\frac{1}{2}\) to \(2\frac{3}{2}\); Copiapo, \(2\frac{1}{2}\) to \(2\frac{3}{2}\); Eberhardt, \(\frac{1}{2}\) to \(3\frac{1}{2}\); Exchequer, \(4\frac{1}{2}\). to \(1\frac{1}{2}\); fortino an Bolivia, \(\frac{1}{2}\) to \(1\frac{1}{2}\); Flagstaff, 1s. to \(2\frac{1}{2}\); Fortino \(2\frac{1}{2}\); To \(1\frac{1}{2}\); Frontino an Bolivia, \(\frac{1}{2}\) to \(1\frac{1}{2}\); Flagstaff, 1s. to \(2\frac{1}{2}\); Fortino an Bolivia, \(\frac{1}{2}\) to \(1\frac{1}{2}\); Reperior Native Copper, \(\frac{3}{2}\) to \(1\). La Plata, \(\frac{1}{2}\) to \(\frac{3}{2}\); he telegram from Leadville giving March smelting return shows-ore received, 5000 tons; La Plata ore, 1500 tons; ore smelted, \(4\triangle 0\) tons; bullion produced, \(4\triangle 0\) tons; silver, \(10\frac{4}{2}\),000 ozs. Linares, \(2\frac{3}{2}\) to \(\frac{3}{2}\); Mason and Barry, to bearer, 12 to \(1\frac{2}{2}\); Michipiccen, \(\frac{1}{2}\) to \(\frac{3}{2}\); New Emma, \(\frac{3}{2}\) to \(\frac{3}{2}\); New Emma, \(\frac{3}{2}\) to \(\frac{3}{2}\); Organos, \(1\) to \(1\frac{3}{2}\); Organos, \(1\) to \(1\frac{3}{2}\); for \(\frac{3}{2}\); Tolica, \(\frac{3}{2}\); to \(\frac{1}{2}\); Potosi, \(1\frac{3}{2}\); for \(\frac{3}{2}\); Tolica, \(\frac{3}{2}\); to \(1\); St. John del Rey, \(5\triangle 0\); to \(1\frac{3}{2}\); Taliva, \(\frac{3}{2}\); to \(1\); Lited Mexican, \(10\); to \(1\); the excess of returns ove outlay in the Mine San Cayetano de la Ovojera for the week ended March 29 was \(\frac{3}{2}\); Outlies \(\frac{3}{2}\); Tolica, \(\frac{3}{2}\)

The Market for Mine Shares on the Stock Exchange has been decidedly less active this week and closes dull, yet a fair amount of business has been done in the aggregate, and when it has keen desired to sell there has been very little difficulty in finding a purchaser, although in some cases a price slightly below that quoted has had to be accepted. It is an encouraging fact that themetal market shows no further decline, indeed quotations are fracthnally better and there is less disposed to press sales. Wheal Agat this week enters the dividend list. The meeting was held on the nine to-day when the accounts showed that the credits were 60411 and the cost 43241, showing a profit of 17171. A dividend of 5s. per share was declared and a balance of 2441 was carried forward. The report of the manager was an excellent one, and the prospects are considered to be very encouraging. To-morrow (Saturday) will be

considered to be very encouraging. To-morrow (Saturday) will be a closed day on account of the late Duke of Albany's funeral. Our usual telegram from Cornwall this evening states:—During the past week the Cornish Mine Share Market has been characterised the past week the Cornish Mine Share Market has been characterised by considerable firmness, with a good enquiry for the leading shares. Dolcoath continue in great favour, owing to the richness of the mine and the probability of still larger returns. West Frances has risen considerably owing to improved prospects, and shares remain scarce. South Frances, South Condurrow, Wheal Grenville, and West Basset are firmer. The latter mine is looking better and the present low price is rather tempting to investors. The leading features of the week has been Wheal Agar meeting, which was held to-day at the mine. The financial statement showed that a profit of 1700l. had been made during the past quarter, the quantity of tin raised being 121 tons. The agent's report was most satisfactory and an increased profit is confidently anticipated by the next meeting. A dividend of 5s. per share was declared. At Redruth yesterday 705 tons of copper ores realised 1932l, the standard advancing 5s. Next sale at Truro, April 17, quantity 2242 tons.

5s. per share was declared. At Redruth yesterday 705 tons of copper ores realised 1983/, the standard advancing 5s. Next sale at Truro, April 17, quantity 2242 tons.

Devon Great Consols, 2½ to 3½, and reported in demand. The monthly sampling of copper ore is 801 tons, for sale on April 17. The agents report that the cross-out has just intersected the lode in the 160, and it is stated there are hundreds of fathoms of unexplored ground in this direction, parallel to which the finest courses of ore were found on the main lode, and the strata being similar in character he considers that the chances of meeting with important discoveries on this lode, which for many years proved so productive in Wheal Emma portion, are very good; this is considered of the utmost importance to the company.

Devon Great United, ½ to ½; and have been in better demand during past week, owing, no doubt, to the important discoveries of copper and mundic ores now being made at the mines. After waiting for so long a time this result must, continues the correspondent, be highly gratifying to the shareholders, and all those interested in the welfare of the company. It should also be remembered that these discoveries are taking place in the mine, but a short distance from where the important discoveries were made many years ago in Devon Great Consols, which returned in dividends over 1,211,900. The agents report that the 120 west in Devon United, where the lode has been driven on for some distance, is worth 3 to 4 tons of rich quality copper ore per fathom, and in the rise above it is worth 6 tons per fathom, whilst in the 104 the lode has been driven on for some distance, worth 4 tons of ore per fathom, and the winze now being sunk in the lode valued at 6 tons per fathom. There is also a good lode being opened at the 120 east, driving towards Devon Consols, worth 1 to 2 tons per fathom; in addition to this, there is a good lode being opened in the 60, west of Watson's shaft, on the middle lode, where a good discovery is shortly expected.

Dol

75, being a rise of nearly 201, per share, or in the value of the mine approaching 100,0001. The mine is not only looking well, but there is, continues the correspondent, great expectation of a rise in the price of tin within the next few months, the stocks of tin being lower

than during the past two or three years.

Drakewalls are reported to be firmer, the last month's sale of tin being about 104 tons, and the next four week's sale, it is expected, being about 10½ tons, and the next four week's sale, it is expected, will be, 12 tons, after which it will be month by month gradually increased, towards the very desirable attainable produce of 20 to 25 tons per month, which, it is hoped, will leave good profits. The agents report that the tributers have been increased to nearly 50 hands, and a further number, as more good men are offering, will be emp cyed. Ecton, 2 to 2½; it is stated that one of the largest original snareholders has this week visited the mines, and made a close inspection of all points of interest both underground and at surface, and is thoroughly satisfied with the result. The progress making at all parts of the company's estate is reported to be extremely satisfactory and quite equal, if not superior, to anything anticipated at the formation

quite equal, if not superior, to anything anticipated at the formation of the undertaking. The recent discoveries in Vivians's vein, and at Chadwick's and other levels, are of character calculated to yield large Chadwick's and other levels, are of character calculated to yield large returns of copper. Samples of the ores give upon assay astonishing results, the proportion of fine copper varying from 16 up to 33 per cent. Such high grade ore although unusual in the generality of English mines is it seems by no means exceptional at Ecton—a reference to the old accounts kept at the time when the property was making no less than 10,000! per week, showing that the enormous output of mineral then obtained gave a similarly high percentage of fine copper.

fine copper.

Kit Hill, ½ to ½; according to the last advices these mines are looking decidedly better. The lode in the north engine-shaft below the 88 fm. level is yielding good tin ore, and the indications in the 88 fm. level east, where the lode is 4 to 5 ft. wide, are of a most encouraging nature.

Old Shepherds, 1 1-16ths to 1 3-16ths; "the market continues extremely hard. Considerable progress is now being made in the draining of the mine, and highly-encouraging news has come to hand. Still further important advices are expected during the Easter holidays, as it is believed that several inspections will then be made by the largest shareholders. The market is evidently only waiting for news to come to cause a further decided upward move

South Devon United, $\frac{1}{4}$ to $\frac{1}{4}$; the lode in the 120 fm. level east has improved, being worth 14l, per fathom, with more lode standing to the side of the level, and the 120 west is also looking better. The

sampling of copper ore is 110 tons.

South Wheal Frances shares have gradually advanced, and business has been done at 9% to 10% per share this week. The mines are looking exceedingly well and the monthly tin sales and profits will be considerably increased, so that dividends will shortly be resumed, making additions to the 40% per share (on 4500 shares), or 180,000% already distributed. already distributed.

West Basset, 23 to 31, and have been in better demand, the North Frances part of the mine improving, and sales of black tia increasing.

West Phoenix, \(\frac{1}{2} \) to \(\frac{3}{2} \); the position and the prospects of the mine have, it is said, improved, and the new manager, Capt. Rich, has given a most favourable opinion with regard to the future development of the property, and some important discoveries of tin are shortly expected.

Asia Minor, \(\frac{1}{2} \) to \(\frac{3}{2} \); the company have just received advices of a

per fathom.

Organos, 1 to 11; the report from the mines is considered satisform.

Organos, 1 to 1½; the report from the mines is considered satisimproving sooner than was expected, while the statements regarding
factory, as the Buena Ventura and Rogers' levels both appear to be
the prospects are gratifying. The returns for the month show an
increase of nearly ½ oz. per ton, while the manager states "our mill
has proved itself capable of making ½ oz. stuff pay all expenses."

Ruby and Dunderberg, ½ to 1; the weekly report advises a considerable increase in the number of tributers at work at the Dunderberg Mine, some of the men working there lately having done well.
No change of moment at the Home Ticket; it has been decided to
sink the incline a further 50 ft. at once. The chief information
about the Lord Byron is that the ore passed through in the Tunnel
was 2½ ft. wide of extra good quality assaying over \$90 a ton, this
body of ore was going to be prospected at once. The telegram received on Tuesday still advises very bad weather, which is much interfering with the shipments of ore, but this cannot now last much
longer.

terfering with the shipments of ore, but this cannot now last much longer.

Schwabs Gully Diamond, 8 to 8½; the announcement of the quarter's dividend of 5 per cent. for only six weeks working has caused a decidedly stronger tone to prevail. The few parcels of shares to be had have also been speedily taken off the market. This, together with the announcement of the finding of a 300 carat diamond in De Beers, has much encouraged shareholders, and it seems that the concern is advancing in public favour.

South Australian Copper Mines, ½ to ¾; the agent at the mines reports that the prospects were never better, and that they were dressing up to the maximum limit of 16 hours per day.

In Lead Mine Shares there has been extremely little doing, and the price of the metal remains without material improvement. Roman Gravels, 3¾ to 4½; the mines continue to look as well as reported last week, and 30 tons of blende have been sampled for sale next week. It is stated that an important reduction in the royalty is now

week. It is stated that an important reduction in the royalty is now being sought for by the directors and shareholders of the company. Tankerville Consols, 1s. to 2s.; the agents report that every effort is being made to keep down expenses, and to try to meet cost. The Bog portion of the property has sold 20 tons of lead ore for 131l., and they have sampled 50 tons from Pennerley and 30 tons from Tankerville for sale next week. Tankerville for sale next week.

Leadhills, 2½ to 2½; and more business is reported in them since the meeting, at which the Chairman and members made some encouraging observations with respect to the low price of lead and lead ores. There was also a strong feeling expressed by the share-holders with regard to Lord Hopetoun making a liberal reduction in the royalty paid by the company, as has been done in the case of several important mines in Cornwall.

The London and South African Exploration Company announce an interim dividend for the quarter ended March 31 of 2s. 6d. per share, less income tax.

less income tax.

It is notified that at the tenth annual drawing, held on Tuesday, 325 bonds, amounting to 88,200%. of the Imperial Government of Japan Seven per Cent. Sterling Loan of 1873 for 2,400,000%, were drawn by lot for payment at par on and after July 1 in London.

The subscription list of the Consolidated Land and Cattle Company will be closed for town and country on Tuesday next.

Notice has been given by the Nerth Brazilian Sugar Factories (Limited) that no further applications for their 200,000% six per Cent. First Mortgage Debentures can be received after Monday.

It is notified that the 6 per cent. guaranteed quarterly dividend warrants of the Hartlepool Steam Tramways, due on Monday, and payable at the National Provincial Bank of England, West Hartlepool, have been posted.

payable at the National Provincial Bank of England, West Hartle-pool, have been posted.

The Leeds Forge Company, at their annual meeting, held at the Forge on March 28, declared a dividend of 7½ per cent. per annum on both ordinary and preference stock. This is regarded as very refreshing in these times of unsual depression.

BEDFORD UNITED.—Notwithstanding the depression in the metal market the monthly sales of ore and mundic are realising fair prices; it is understood that a profit of 150% to 200%, per month is being made and that the present samplings are likely to be maintained for some time to come. The accounts for the meeting next month will, it is said, show a good balance available, and out of which a dividend probably will be declared. The cutting of the lode in the 75 is daily expected, and should a good course of ore be intersected, which is generally anticipated, the returns will be increased and the mine placed in a position it has not held for many years.

WHEAL COMFORD AND NORTH TRESAVEAN .- The report of the WHEAL COMFORD AND NORTH TRESAVEAN.—The report of the recent meeting, published in another column, should be satisfactory to the shareholders generally, since they have excellent prospects, and the concern is placed in a sound financial condition. It will be observed that the adventurers have taken "the bull by the horns," and made a call to pay off their liabilities. The mine is situate in Gwennap parish, and has, we understand, no water charges, being drained free of cost, by the engine of old Tresavean Mine, and, as the report shows, there will be at present no dues payable, so with the increased returns promised the mine will be in an exceptional good position.

GOLD AND SILVER.—Messrs PixLey and Abell (April 3) write: The demand for gold for India being but small, the bulk of arrivals have been purchased by the Bank of England, the amount received being 314,0002. On the other hand, the Bank has sold for export to South America 85,0002. Large amounts continue to arrive from New York, and more is expected. The arrivals are—20,5702. from the States, 10002. from the Oape, 52,5102, from the West Indies, 740Cf. from Australia—351,4802. The P. and O. steamer takes 25,0002 to Bombay. There has not been much demand for silver for the East, the India Council having been very large sellers of their drafts and transfers during the week. The price of bars, therefore, has again declined, and the quotation oday is 5042/40. To 50/40, per oz. standard. The P. and O. steamers take 125,3004. to India, and 80004, has been sent to the West Indies. The amount of 50,0002. arrived per Don, and was disposed of at 5041/40. per oz. The quotations for buillion were:—Bar gold, fine, 77s. 9d. per oz. standard; bar gold, containing 20 dwts. silver, 77s. 10/40, per oz. standard; Bapaniah doubloons, 73s. 9/4d. to 73s. 10d. per oz.; South American doubloons, 73s. 8/4d. per oz.; United States gold coin, 76s. 3/4d. per oz. Bar silver, fine, 504/4d. per oz. standard; bar silver containing 5 grs. gold, 51d. to 514/3d. per oz. standard; cake silver, 544, per oz.; Mexican Dollars, 49/4d. per oz. Quick-silver, 54. 10s.; discount, 3 per cent.

HAILWAY AND GENERAL MARKETS.—Referring to the course of business done to-day during official hours (11 to 3) Mr. Ferdinand R. Kirk Birchinlane, writes:—Opening: County operators buying back are making Trunks a little better, but there is only as yet a moderate recovery from yesterday's crushing fail. The Ordinary are 12% to 12%, Second Preference 72% to 73, and Thirds 20% to 1. Eries are somewhat strong, and have reached 22 Readings being 27% to 28. The business now done, however, in American rallways is not a tithe of what it was. Mining shares are rather neglected in face of the approaching

further shipment of silver-lead ore to Liverpool, and it is stated that, owing to an improvement in the condition of the roads to Kerassunde, regular shipments of ore may be shortly expected.

California Gold, 9-16th to 11-16th; this week's mill run of 495 tons yielded 760L, smelting ore sales 340L, total 1100L. The stopes at the 1500 west, are reported to be in splendid condition, having 3 ft. of ore throughout, yielding 7 tons of milling and \(\frac{1}{2}\) ton of smelting ore per fathom.

Organos 1 to 1\(\frac{1}{2}\); the report from the mines is considered satis-

COPPER ORES.
Sampled March 19, and sold at Tabb's Hotel, Redruth, April 3.

Mines.	To	ns.	Price		Mines.	Tons.	Price.	
Mellanear		80	£2 14	6	Wheal Coates	56	£3 12	0
ditto		79	2 17	6	ditto	12	4 14	0
ditto	**********	78	2 13	0	Camborne Vean	39	1 12	-6
ditto		75	2 14	0	ditto	16	. 6 8	0
ditto		74	2 16	0	West Seton	26	3 10	6
ditto		70	1 13	6	ditto	19	. 3 9	0
ditto		59	2 11	6	West Tolgus	22	3 5	0
					RODUCE.			
fellanear	515	£1:	330 14	0	West Wheal Seton	n 45 £	157 4	0
Vheal Coates	68	1	258 0	0	West Wh. Tolgus	. 22	71 10	0
Camborne Vea	ın 55	1	165 15	6				
				-	_			
average stand	uaru	den non	£ 80	10	0 Average produ	. £2 16 6	6	74
Quantity of or	serage pr	ice per	ton	705	Quantity of fine c		Sowta.	
& deniete y or or	Amon	nt of m	2000	100	£ 198	opper, 44 com		•
LART SALE -	Arorag	a etande	and P	90	7 0 Average pr	odnos		134
Standar	d of core	espandi	ru, a	10.1	st month, £ 89 13	0 1 Produce	634	77
19 Call Clair	u or corr	caponui	ng sa	10 11	ist month, & os 1.	o Froduce	, 078	
COM	PANIES	DV W	TOM	TOLL	E ORES WERE	DITROTTAGET	•	
OUM	LANIES	DI W	HOM	TH	T OUTS MEUR	CHCHASEI		

Amount. 567 7 0 58 12 6 193 18 3 353 0 9 227 2 8 583 2 6 79 201 705 ... £ 1983 3 6 Copper Ores for sale at the Royal Hotel, Truro, on Thursday week.—Mines and parcels.—Devon Great Consols 301—Wheal Grebor 510—South Caradon 300—Bedford United 187—Gunnislake 177—Holmbush 180—South Devon United 110—Glasgow Caradon 80- Wheal Arthur 55—Phosnix 40—Devon Friendship 22,—

At Redruth Ticketing, on Thursday, 705 tons of ore of 6½ average produce, and containing 44 tons-6 cwts, of fine copper, were sold for 1983t. 3s. 6d., being 2t. 16s. 6d. per ton of ore, 8s. 11½d. per unit, or 44t. 15s. 4d. per ton of fine copper in the ore, and an average standard of 88t. 10s. Subjoined are the particulars of the two last sales.—

Date. Tons. Standard. Produce. Per ton. Per unit. Orecopper. March 20... 2033 ... £89 7 0 ... 6½4 ... £2 15 6 ... 9s. 4d. ... £46 15 0 April 3... 705 ... 82 10 0 ... 6½ ... 2 16 6 ... 9s. 4d. ... £46 15 0 Compared with the last sale the standard is stationary.

LEAD ORES.

Date. Mines. Tons, Price per ton,	Purchasers,
Mar. 28-Minera 57 £ 7 2 0	Panther Lead Co.
- ditto 57 7 0 0 7 1 0	Runcorn Smelting Co.
- ditto 50 7 1 0	Quirk, Barton, and Co
April 1—Foxdale	dltto
3-Tankerville Great Consols:-	
Bog 10 6 11 0 .	Panther Lead Co.
	Quirk, Barton, and Co
BLENDE.	
Date. Mines. Tons. Price per ton	Purchasers.
Mar. 24-Frongoch 2 3 2 6 .	English Crown Co.
	Villiers Spelter Co.
	Crown Zine Co.
	Vivian and Sons.
	Crown Zine Co.
	Vivian and Sons.
	Crown Zine Co.
	ditto
	Vivian and Sons,
	ditto
	ditto
	English Crown Co.

CLOSING OF THE LISTS.

31-Frongoch

ditto
Vivian and Sons.
ditto
ditto
English Crown Co.
J. F. Kimmel.

THE CONSOLIDATED LAND AND CATTLE COMPANY (LIMITED).

Notice is hereby given, that NO FURTHER APPLICATIONS for SHARES in this company will be received after TUESDAY next, the 8th instant.

the 8th instant. By Order, H. R. LEWIS, Secretary (pro tem.).
Bartholomew House, Bartholomew-lane, London, E.C., April 3rd, 1884.

THE NORTH MEXICAN SILVER MINING COMPANY (LIMITED). 20, St. Helen's place, E.C.

20, St. Helen's place, E.C. SUBSCRIPTIONS are INVITED for £60,000 Capital by the Issue of 3000 Debentures of £20 each.

The owner agrees that this amount shall be repaid with interest before he can derive any profit.

To effect this each subscriber of £20 is given a Debenture for £20, which ensures the repayment of his capital, and 20 fully paid-up Shares of £1 each.

of £1 each.

TRUSTEES FOR DEBENTURE HOLDERS.

The Hon. FREDK. S. A. HANBURY TRACY, M.P.

F. W. LOWTHER, Esq.

WILLIAM PALMER, Esq. CHAIRMAN. Sir JOHN J. JENKINS, Esq., M.P.

This company is formed to take advantage of the railway tapping a district which has produced £8,000,000 sterling by open cuts. Owing to the solid advantages given subscribers, and unusual prospects of the undertaking, the capital is being steadily subscribed for in increased amounts daily. Applicants should send in their subscriptions at as early a date as possible.

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C. standard; bar silver containing 5 grs. gold, 5td. to 5td/4d, to BUYER or SELLER of the following:—

100 Almada and Tirito.

70 Eberhards.
50 Brataberg.
50 California Gold.
7. Callao Bis.
100 Chie Gold.
100 Chie Gold.
100 Chontales.
100 Colombian Hydraulic.
200 Coporation Bo. Aus.
100 East Blue Hills.
100 Devon Friendship.
100 East Blue Hills.
100 East Wheal Rose.
100 Orita.
200 Parys.
50 Potosi.
60 Prince of Wales.
100 Homes Mines Trust.
100 Treavean.
10

C. PASS AND SON, BRI TOL, ARE BUYERS OF

LEAD ASHES, SULPHATE OF LEAD, LEAD SLAGS, ANTIMONIAL LEAD, COPPER MATTE, TIN ASHES, &c and DROSS or ORES containing COPPER, LEAD, AND ANTIMONY

GEO. G. BLACKWELL, 26, CHAPEL STREET, LIVERPOOL, MANGANESE, BARYTES, SPARS, and ALL ORES on SALE or PURCHASE.

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See Selected List published by S. James, 14, Angel-court, London, E.C. SPECIAL BUSINESS in the following or part:—

20 Bedford United.

10 Pernant.

10 Pernant.

21 Devon Friendahip.

22 Devon United.

23 Devon Friendahip.

24 Devon United.

25 Durakewalls.

26 Last Blue Hills.

27 Larker, 64. Consols. 40 Tamar.
100 Tresavean.
100 Tanker. Gt. Consols.
20 Trevaunance.
28 West Caradon.
50 West Crebor.
60 West Gonamena.
10 West Kitty.
5 West Poldice.
25 Wheal Basset.
60 Winel Coates.
20 Wheal Crebor.
10 Wheal Jane. 100 Indian Consolidate
100 Indian Glerreck.
20 Javali.
50 Kohinoor B
50 Kapanga.
150 La Plata.
50 Last Chance.
20 Lisbon Berlyn
20 Montana.
30 New Emma.
100 Nouveau Monde.
120 Organos.
50 Ortia.
50 Potosi.
20 Port Phillip.
10 Panulcillo.
50 Ruby & Dunderbe
20 Richynond. 20 East Blue Him.
10 Ecton.
80 East Oaradon,
50 East Wheal Rose.
40 Frongoch.
100 Goginan.
10 Great Lazey.
10 Gunnislake Olitters.
20 Great Holway. East Blue Hills. 20 Great Holway.
10 Grogwinion.
20 Killifeth.
100 Kit Hill Gt. Consols.
20 Kitty Bt. Agnes.
20 Mounts Bay Consols.
21 New Kitty.
20 New Kitty.
20 New Caradon.
20 Old Gunnislate.
100 Old Sinepherds.
10 Plennix United.
20 Pennant.
40 Chile.
50 Wheal Coates.
100 Asia Minor.
50 Akankoo (fully paid).
50 Eridseye Creek.
50 Brataberg.
100 Carkago.
101 Carkago.
102 Carkago.
103 Carkago.
104 Chile.
105 Callao Bis.
106 Wheal Coates.
107 Cheal Jane.
108 Cheal Jane.
109 Carkago.
100 Carkago.
100 Calko Bis.
100 Cheal Jane.
100 Cheal Jane.
100 Cheal Jane.
100 Catego.
100 Carkago.
100 Cheal Jane.
100 Catego.
100 Carkago.
100 Cheal Jane.
101 Catego.
100 Cheal Jane.
101 Catego.
102 Cheal Jane.
103 Catego.
104 Cheal Coates.
108 Cheal Coates.
108 Cheal Coates.
108 Cheal Coates.
108 Cheal Coates.
109 Cheal Coates.
100 Asia Minor.
100 Carkago.
100 Carkago.
100 Carkago.
100 Catego.
100 Categ Panulcillo.
Ruby & Dunderberg.
Richmond. 50 Bratsberg.
100 Cankim Bampo.
10 Cartago.
25 California Gold.
50 Callao Bis.
40 Chile.
20 Choutel 30 Pennant. 70 Prince of Wales.

30 Pennant.

10 Prince of Wales.

20 Choutales.

20 West Callas.

20 West Callas.

20 West Callas.

20 West Callas.

30 S. JAMES is a Buyer or Seller of any of the above Shares.

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BRITISH MINING:

A TREATISE ON THE HISTORY, DISCOVERY, PRACTICAL DEVELOPMENT, AND FUTURE PROSPECTS OF METALLIFEROUS MINES IN THE UNITED KINGDOM.

By ROBERT HUNT, F.R.S.,

The Keeper of Mining Records.

Formerly Secretary of the Royal Cornwall Polytechnic Society; Professor of Experimental Science in the Royal School of Mines; Editor of Ure's Dictionary of Arts, Manufactures, and Mines, &c., &c., &c.

> LONDON: CROSBY LOCKWOOD AND Co., 7, Stationers' Hall-court, E.C.

Notices to Correspondents.

GOOD FRIDAY.—Next Friday being a closed day correspondents are particularly requested to forward their communications and reports a day earlier than usual. Replies to letters should reach us not later than Wednesday morning.

Tiv And Tin Dressing.—Will some correspondent inform me, through the Mining Journal, where I can find the average production of tin per ton of stuff of the various mines; and also the cost of dressing and smelting. Can they also give me the name of a publication on the metallurgy of tin, or one on the reduction of that metal.—STANNUM: Secanses.

reduction of that metal.—STANNUM: Scansea.

GIEAT WHEAL POLGOOTH.—Can some correspondent kindly inform me, through the Mixing Journal, the name and address of the new official liquidator of the Great Wheal Polgooth, vice Mr. Waddell, who has left this section of the "vale of tears."—I G.: Edinburgh.

GOVER CONSOIS AND PAEKA MINES.—I am a shareholder in both these mines, and shall be very glad of some information respecting them. Perhaps some fellow shareholder can inform me, through the Mixing Journal, whether they are still being worked. Why is it a balance-sheet has not been issued?—C.: Aylsham.

Ayisham.

Morn Treekerny.—The report of the agents, Messrs. Pror and Son, datid March 27, was sent to our office on April 4 at 7.30 p.m., and, therefore, too late for insertion among the mise reports. Those adventurers who have complained of omissions of reports on many previous occasions must attribute it to the neglect of their agents. No charge is ever made, for instance, of mine reports; but it is assumed that they will be sent in proper time.

Mining to Japan.—"H. K." (Glasgow): We do not know of any Anglo-Japanese Mining Company, but there are good mines in Japan. They all belong to the Government, which also takes any mine newly discovered, indemnifying the landowner for the surface. There is no royalty, but the concession always reserves the Government a stax, which has been payable since 1373. We do not know whether the grant includes all the minerals beneath the surface, but it probably does, as the Japanese consider "all things in the wide expanse of Heaven, and all things on the earth, to its furthest limits, have belonged to the Emperor from generation to generation," and the words in which the tax is stated seems to indicate working for mixed metals. Thus persons working mines from which gold and silver cannot not previously worked, and yielding one from which gold and isliver cannot not previously worked, and yielding ore from which gold and silver cannot per 1000 issued. When the superficial measurement is under the number of per 1000 issued to the Emperical measurement is under the number of per 1000 issued to hake and share agencies, but we do not see how it would applicense fee on banks and share agencies, but we do not see how it would applicense fee on banks and share agencies, but we do not see how it would applicense fee to hanks and share agencies but we do not see how it would applicense fee to hanks and share agencies but we do not see how it would applicense fee on banks and share agencies but we do not see how it would applicense fee on banks and share agencies but we do not see how

but Japanese taxation is rather complicated.

Recriced,—"J. I." (Liverpool): We have forwarded your letter to the inventor with request that he will reply to it—C. G. C. (Chile de Guyana): The letter is inserted with necessary modifications. The omitted personalities, even if true, are objectionable and inconvenient, except where the fighting editors work three eight-hour shifts a day—"Justice" (Postmark: Trinidad): We cannot allow a correspondent using a pseudonym only, to date his letter from an address which the postmark will not cover. The London Directory shows the house dated from to be occupied by a ladies' outditer, and surely she or he would not send a letter to Trinidad to be posted so as to waste six weeks in transmission when two hours would suffice if sent direct—S. W. (Pau): We are always equally ready to protect capitalists and promoters from unfair charges, or to give space for any justifiable complaints.

THE MINING JOURNAL,

Bailway and Commercial Gazette.

LONDON, APRIL 5, 1884.

THE COMMERCIAL OUTLOOK.

We have now arrived at that period of the year which is regarded we have now arrived at that period of the year which is regarded as the most hopeful, and at the same time most critical, in our annual commercial history. During the early spring months manufacturers and merchants, as a rule, scan the commercial horizon, with a view, if possible, of ascertaining requirements and making arrangements for the coming season. The quantity of "stock" in hand is carefully ascertained, and prices are most closely scrutinised. Every rise and fall of the commercial barometer is keenly watched, as it is rise and fall of the commercial barometer is keenly watched, as it is upon such indications that shrewd manufacturers are enabled to pretty nearly predict upon which side of their balance-sheet the result of the next six months' working shall be placed. After the long depression which has been passed through, and the almost unparalleled low prices which have prevailed, every indication of anything like improvement, either in demand or price, is apt to be viewed with too sanguine complexion, and we are all more or less inclined to hope and believe that the tide of commercial prosperity has once more begon to flow, and that ere long the anxiously awaited "better times" will be enjoyed, to the mutual advantage of both manufacturer and operative. As the representative of the great metal and colliery interests of this country nothing would afford us greater pleasure than to be able honestly to endorse the sanguine views put forward, and announce that upon taking a calm and dispassionate view of the present state of trade and the probable requirements, we could predict that we have passed the trying ordeal, and that we are on the dawn of more prosperous times. Not that we would take a pessimistic view of the state of trade at the present juncture. There are features which present indications of hope; but there are also confeatures which present indications of hope; but there are also contingencies which will have to be boldly and bravely faced in the future, as in the past, and to be reminded of these and the true posione of the best means of escaping c

Our first point is one which cannot be gainsaid, and should not be Our first point is one which cannot be gainsaid, and should not be ignored—the extreme depression of the great manufacturing industries of the kingdom. From all the great iron, steel, and metal centres and colliery districts the same reports of depression and low prices are received. We may make bold enough to say that there is no one single metal manufacturing district in the whole kingdom which is in anything like full vigorous operation or would not gladly extend its make if adequate prices ruled. It is true that the various railway companies of the kingdom earned fairly good dividends for their shareholders for the past half-year, and these returns afford accurate data for estimating the state of trade; but, on the other hand, the divisable sums were the result of more economic manage. hand, the divisable sums were the result of more economic management and the fact that steel and iron rails used in the relaying and

yet more ruinous prices prevail over the spring and summer months. So far as can be seen there is nothing likely to occur, either in the home consumption or the foreign demand, which would lead us to jushome consumption of the foreign demand, which would lead us to justify any expectation of commercial reaction, or to call for any strain upon the manufacturing resources of the country. The number of new lines of railway required in this country is but small, whilst the demand for steel and iron rails either in our own colonies or in distant nations will be eagerly competed for by other nations, which will effectually prevent any material rise in prices. There is another point of importance which should be taken into consideration in our forecast of the fature. For many months, near wedgetting has been tant nations will be eagerly competed for by other nations, which will effectually prevent any material rise in prices. There is another point of importance which should be taken into consideration in our forecast of the future. For many months past production has been far more than consumption. This is most apparent in the case of steel and iron shipbuilding. Up to a few months ago the principal shipbuilding ports were actively engaged in the building of steamers and sailing vessels of the very heaviest tonnage, and makers of steel and iron plates were correspondingly busy. What is now the consequence? Why in many of our principal ports large numbers of steamboats are buoyed up—absolutely lying idle. The tonnage being so much more than the demand the freights are so low as to be altogether unremunerative. Nor is this all. The competition with the continental and foreign nations for the supply of almost every description of the world's consumption of manufactured goods will be keener in the future than it has been in the past—severe as that has been. England can maintain its own in a fair commercial competitive race; but we are now heavily handicapped, the many restrictions which beset our industries hanging like so many millstones around the necks of manufacturers, and which do not appertain to other countries. It is useless to expect or even desire the nation to go back to Protection; but it does seem somewhat unfair and hard that whilst England opens her ports and markets freely for the manufacture of every kind of foreign goods, without shipping or other dues, every other country imposes heavy dues upon every kind of British manufacture. Nor is this all. The Government is so solicitous for the health and comfort of the operatives that it has passed restrictive measures in the shape of Factories and Workshops Act, restricting the hours of work, and appointed a large number of Inspectors to see that the clauses are rigidly enforced and penalties enacted for the breach thereof. None of the continental nations

ponder over them, with the view or checking the absurd demands for increased wages which are continually being made.

Whilst the present condition of the staple trades of the country and their future prospects compel us thus to write somewhat gloomily we are not taking anything like a desponding view of the situation. We are not amongst the number of those who would write "Ichabod" over the portals of the nation. We have elements of future commercial prosperity which will command for us the leading mart of the world's commerce. We have practically an inexhaustible supply of coal, cheaply and expeditiously raised. We have a capital at command, always open for profitable employment, which is the envy of other nations. British capital and British enterprise will always prove the pioneer of civilisation, and will carry British commerce into every continent. India, China, Africa, Canada, Australia, and our colonies generally are all awakening, gradually it may be, but surely, to the necessity and importance of railway expansion, and the demand for steel rails in the future will be at least equal to the past. England will participate in the demand which this expansion will create, and it will depend very much upon the attitude of those engaged in our great manufactures and workshops whether the proportion of goods shall be large or small. General stability and excellence of workmanship will secure for English manufacturers a fair share of the world's commerce; but the competition is severe, and province in evertive in this expansion. share of the world's commerce; but the competition is severe, and growing in severity. Our mechanics and operatives in this competitive race should face the inevitable, and should be prepared to accept that which cannot be avoided. The rate of wages at present paid is far higher than the depressed condition of trade and current prices justify; and if our operatives generally are wise in their day and generation they will gracefully accept such judicious reduction in wages as will enable manufactures and merchants to successfully compete for any improved trade that may set in.

PROPOSED SCIENTIFIC AND TECHNICAL COLLEGE FOR WALES.

An influential public meeting of the ratepayers and inhabitants of Swansea (convened by the Mayor, Mr. R. D. Burnie) was held in the Guildhall, on Wednesday evening, for the purpose of considering what steps should be taken to place Swansea's claims prominently before the Government for a grant for scientific and technical education. The Mayor, in opening the proceedings, said that the memorial which had been adopted by the Corporation did not propose to injure Aberytswith College, but rather to secure the grant of 4000l. a year to that College, on the condition of its being removed to Swansea. which he thought would be a most magnificent thing for 40000. a year to that college, on the condition of its being removed to Swansea, which he thought would be a most magnificent thing for the whole education of Wales. The Council of Aberystwith College, however, had taken an opposite view of the question, and, therefore, it remained for Swansea to confine her efforts to her own interests. His worship then dwelt at some length upon the peculiar and favour-able position of Swansea as the site of the proposed scientific and tech-nical college for South Wales. Swansea was the centre of a very large population, all of whom were more or less connected either wish the metal trades or colliery operations, whilst in conjunction with the adjacent towns of Neath, Port Tailot, Aberavon, and Lianelly it was known as the metaliurgical empire of England, if not the world.

If, said his worship, England is to maintain her own as one of the principal manufacturers of the market of the world, we must devote our attention to the cultivation of skill as well as a bysical

the principal manufacturers of the market of the world, we must devote our attention to the cultivation of skill as well as physical strength, for as Prof. HUXLEY had said—"The nation which does not wield her commercial weapons scientifically will fall backward in the competitive race of trade." After alluding to the facilities in many of the Continental nations, more especially Germany, for the acquiring technical and scientific education, his worship moved—"That this meeting is of opinion that for the many unanswerable reasons stated in the memorials lately presented to the Right Hon. W. E. GLADSTONE, Lord CARLINGFORD, and Mr. MUNDELLA, Swansea, as the chief town in the Principality, has a paramount claim for a grant the chief town in the Principality, has a paramount claim for a grant for higher educational purposes; it is further of opinion that the establishment of an institution here in which the teaching of technical science, engineering, mining, and similar studies should be its leading features, would not only be of local, but also of great national advantage." The Mayor supported the resolution in an able and exhaustive speech.—The resolution was carried unanimously.

Mr. R. C. CAWER, proposed that the resolution should be for

R G. CAWKER proposed that the reso warded to Mr. GLADSTONE, Lord CABLINGFORD, and Mr. MUNDELLA, asking them to take the subject into consideration.—Mr. J. C. VYE ASKING them to take the subject into consideration.—Mr. J. C. YYE PARMINTER, J.P., proposed, and Mr. Councillor Rocke seconded, a resolution asking that the borough and county members of Parliament be asked to support the views, and to use their influence in Parliament towards the accomplishment of the object.—These resowere also carried with enthusiasm, which concluded the

THE BESSEMER STEEL, AND STEEL RAIL TRADES.

Considerable changes took place during last year in the production of Bessemer steel and steel rails. Sheffield, where the Bessemer process was perfected, shows a considerable falling off, and the trade appears to be drifting northwards. To some extent this is due to the railway rates to the sea-ports. The competition for foreign orders has been keen, and as the Sheffield makers have had to pay from 10s. to 12s. a ton for carriage to a port they have been too heavily handicapped to compete with works near to the sea-board. It was the railway rate that principally induced Messys. CAMMELL and CO.. of ment and the fact that steel and fron rails used in the relaying and repairs were purchased at exceedingly low prices. Eleven of what may be termed the principal mineral lines of the kingdom totalled 28,580,000% as their receipts for the half-year ending Dec. 31 last, as against 27,865,000% for the corresponding period of the previous year. This showed that a fairly good manufacturing trade was done, and there is no reason why this regular and stendy trade should not be maintained over the ensuing six months. But there is no denying the fact, notwithstanding that the present commercial outlook is far from being cheering or hopeful, and that manufacturers who would, as shrewd business men, endeavour to read the signs of the times, must be prepared to restrict operations if they would not see

Bessemer and in steel rails, although it is probable that it will be overtaken by Cleveland with the basic process and its vast deposits of suitable ironstone close at hand, whilst in South Wales much of the ore has to be brought from a considerable distance. In West Cumberland also progress may also be looked forward to, since there is plenty of the best ironstone near the various works. For the first time, however, since Bessemer was made to any extent there was a decrease in the production in 1883. The quantity of Bessemer ingots turned out in 1882 and 1883 was as follows:—

South WalesTons Sheffield Cleveland Lancashire, &c West Cumberland	420,000 326,924 252,313	********	285,963 304,606 247,440
West Cumberland	191,326	*******	210,605

ollows:—	1881.		1882.		1883.
South WalesTons	305,043	***	367,944	***	410,676
Sheffield	245,469	***	310,000		142,665
Cleveland	216,004	***	265,842	***	245,386
Lancashire, &c	136,131	***	141,306	***	125,011
West Cumberland	121,093	***	150,693	***	173,436

Year.	Pe	r ton	١.	Year.		P	er to	n.
1870	£10	10	0	1877	*************	£6	11	3
1871	11	18	9	1878	***************	5	12	6
1872	13	17	6	1879		5	2	6
1873	15	7	6	1880		7	0	0
1874	11	17	6	1881	*************	6	0	0
1875	9	2	6	1882	*************	5	10	0
1876								

It may be stated that hematite iron for making into Bessemer in the early part of 1883 were quoted at 60s. per ton, but now they are procurable as low as 55s. per ton.

PRICE OF COPPER.

There having been no sales of copper furnace material at the Swansea Ticketings during the past quarter we subjoin, for the guidance of our subscribers and correspondents in foreign countries, a list (supplied by Messrs. JAMES LEWIS and SON, of Liverpool) of produces and prices per unit. There were other sales, but as the produces are not given we omit them:—

Mar. Tons.	Per ce	nt.			Per unit
1 110OreBattle Mounta	In 20	L	verpo	10	11/114
S 180 Ore New Quebrada	(ruby) 15				11/3
3 87RegulusCanadian	28				10/71/4
5 100OreCape (rich)	30		rausea		11/3
5 200OreCape (poor)		***	63		
10 260OrePeruvian	25	Ll	verpos	ol	11/3
11 135OreMontana (arse	nical; 80	100			
13 500 Regulus Rio Tinto	30	***			
13 170Ore	ive) 10	***	**		
18 200Precipitate Rio Tinto	70		89	400	11/3
18 170OreSpanish (low)	produce)	***			10/6
211100 Ore Australian (to	arrive)9 to 2	0 . av	CADSES	1	0/6 to 11
25 30 1OreNew Quebrada	(ruby) 15	T.i	verno	ol	11/0
25 IOPrecipitate Rio Tinto (ric)	3) 99	***	**		11/7%
25 50OreMontana (arse	mical) 20	***			
25 100OreBattle Mounta	in (to arr.) 20				

Rumours of large supplies from the United States in the course of the year, and the entire absence of any desire on the part of the general public to invest in this metal—or in fact in anything else—not-withstanding the very favourable statistical position, has, writes Messis. withstanding the very favourable statistical position, has, writes Mesers, Lewis and Son, caused a decline of about 30s. per ton in the value of Chili bars during the past month. The demand from the trade has been very good, and deliveries continue exceptionally large. Smelters and manufacturers are full of orders for nearly two months forward, and large quantities of sheets are being taken for India. The smelters reduced the price of manufactured copper 2l. per ton on March 28, making strong sheets 67l. per ton. It is reported that about 6000 tons of Lake Superior ingot copper has been soid for delivery in France during the year on private terms. On March 17 the Chili charters were advised for the first half of the month as 1700 tons bars and ingots—1150 for England and 550 tons for orders here or Continent. The arrivals of bar copper have been very large (about 3900 tons), but they will be very moderate for some time to come, the quantity affoat being greatly reduced. Deliveries are much in excess of last year. The arrivals from Chili during the past month have been 3894 and the deliveries 3682 tons, and from other countries 3366 and 3230 tons fine respectively. The arrivals here from the United States consist of 105 tons bars, 22 matte, and 1879 tons ore, equal to about 856 tons fine copper.

SCOTCH PIG-IRON WARRANT MARKET.

Mr. W. Wilson (Glasgow, April 2) writes:—The warrant market is steady, and the stock is strongly held; but there is little doing in the way of fresh purchasing. The shipments should now increase as the Baltic ports open; but they will probably fall short of the figures of last year. We calculate, however, that with the present reduced production stocks will be drawn upon to whatever extent the abit ments exceed 10 000 tons per week. Shipments are fair for the shipments exceed 10,000 tons per week. Shipments are fair for the week, and compare favourably. There is no change in the number of furnaces blowing. 406 tons were put into store here last week, while 310 tons were taken out at Middlesborough. Business was done during the past week at the following prompt cash prices:

42/5, 42/51/2 42/51/2, 4 Tuesday, April 1. Wednesd	March 28, 12/5, 42/6 lay, April 2 42/2, 42/3		Mon	day, Ma 2/5 1/4, 42 reday, A at day, 1 1882.	arel 2/4 pri	% il 3.
Price of Scotch Warrants, March 31 Furnaces in blast in Scotland do	42/5 93	47/1	***	40110	***	48/9
Iron in store at this date	594,728	584,564	(66	629,689	***	540,146
week ending March 29	10,990		***	10,107		10,421
Price of Middleshro', No. 3, March 31 Purnaces in blast Middleshro' dist,	37/3	40/	***	43/8 117		38/6 120
Middlesbro' Iron Imported at Grangemouth, week ending March 20	8,410			3,115		
Do. do. since beginning of year	71,810	61,731	000	75,571		75,834

THE INSTITUTION OF CIVIL ENGINEERS .- At the meeting, on THE INSTITUTION OF CIVIL ENGINEERS.—At the meeting, on Tuesday (Sir J. W. Bazalgette, C.B., President, in the chair), it was announced that the Council had recently transferred Joseph Bernays, George Cartwright, Charles Colson, William Irlam Ellis, Alan Grant-Dalton, James Charles Inglis, and Arthur Shanks to the class of Members; and had admitted James Hartley Abbott, Henry Matthew John Bacon, John James Bourne Benson, Henry John Bridgewater, Herbert Alexander Caffin, Arthur Pitt Chambers Cary, John Jacob Cohen, Alfred Fawcus, John Jervis Garrard, Albert Daniel Greatorex, Bertram Jones, Cyril Edward Arengo Jones, Hugh Torrance Ker, James Percy Knight, Hubert Bindon Marten, and William Pollock as Students of the Institution. At the monthly ballot—Frederick Beesley, Westminster; Jorge Rademake Grünewald, Dom Pedro II. Railway; Clayton Turner Mason, P.W.D., Western Australia; and John Taylor, Queen-street-place, were elected Members; José Barbalho Uchôa Cavalcanti, Rio de Janeiro; John Henry Clemes, Falmouth; Charles Edward Goodfellow, Adelphi; Francis William Gosling, Staines; Archibald Greenlees, P.W.D., India; Francis William Gosling, Staines; Archibald Greenlees, P.W.D., India; Francis William Gosling, Staines; Archibald Greenlees, P.W.D., India; Francis William Charles Leslie Stewart Mais, A.K.C., Stud. Inst. C.E., Jamaica, Charles Leslie Stewart Mais, A.K.C., Stud. Inst. C.E., Jamaica, Henry Waterworth Parkinson, Lancashire and Yorkshire Railway; George Rankin, Stud. Inst. C.E., Cape Government Railways; Thos. Harold Rawson, P.W.D., New Zealand; Martin Fenn Roberts, Post Office Telegraphs; Henrique Scheid, Rio de Janeiro; William Acheson Traill, Electric Tramway, Portrush; and William Whittington, Neath, Associate Members; and Tolmie John Tresidder, Capt., R.E., an Associate.

EXPERIMENTS ON THE COMPOSITION AND DESTRUCTIVE DISTILLATION OF COAL.

DISTILLATION OF COAL.

An interesting paper upon these experiments was read before the Institution of Civil Engineers on Tuesday (Sir J. W. Bazalgette, C.B., President, in the chair) by Mr. WILLIAM FOSTER, M.A., F.C.S. In the first portion he dealt with the chemical composition of six samples of coal raised in different parts of the United Kingdom, and of widely different characters. One was a specimen of Scotch Cannel, a second a specimen of English Cannel, two were from Yorkshire, one from Durham, and one was Welsh anthracite. The samples were of good repute, either for the manufacture of illuminating gas or of foundry coke. The amounts of each and all of the elementary components were given in the form of tables. Each sample was then submitted to the process of destructive distillation, and the coke produced was then fully analysed, the same details having been worked out as in the case of the parent coals. The connection between the composition of a sample of coal and of the coke which it furnished was thereby elucidated. In this way some instructive details were brought to light.

The relation between the amount of sulphur present in a particular sample of coal and that remaining in the coke was then discussed, and a table was given showing the amounts of sulphur evolved by the respective coals when treated as in the manufacture of coal gas. In all the cases under notice the amount of sulphur remaining in the coke was less, and occasionally considerably less, than that pre-

In all the cases under notice the amount of sulphur remaining in the coke was less, and occasionally considerably less, than that pre-sent in the parent coal. It was remarked that this was in opposition to the generally received opinions on the subject, which were to the effect that one of the drawbacks to the use of coke as a domestic fuel arose from its containing more sulphur than raw coal. The behaviour of the nitrogen of each of the samples of coal was

The behaviour of the nitrogen of each of the samples of coal was discussed at great length, so that the paper formed a continuation of the author's earlier researches on this branch of the subject. The chief interest centred in the nitrogen remaining in the coke, which was shown to contain from 50 to 66 per cent. of the original nitrogen of the coal. The amount of the nitrogen of the coal, coming off as ammonia during the process of destructive distillation, was also given for the different samples, and estimates were furnished of the amount coming off as cyanogen during the same process. By the author's methods of experiment, a considerable proportion of nitrogen was still unaccounted for, which he believed to exist partly in the tar in the form of alkaloidal substances, but principally as free nitrogen in the coal-gas. The paper then dealt at great length with the question of recovering the nitrogen of coke as the valuable product ammonia, and showed how this might be effected by the action of steam at a high temperature. By gasifying the valuable product ammonia, and showed now this might be effected by the action of steam at a high temperature. By gasifying coke, in the manner stated in the paper, until it lost a little more than 40 per cent. in weight more than 60 per cent. of the total nitrogen of the coke was evolved as ammonia gas. In other words, 100 tons of coke, when submitted to this limited influence of steam, furnished ammonia equal in amount to 4 tons of ammonium sulphate.

phate.

The author then discussed the bearing of these researches on the question of supplying gaseous fuel for industrial purposes. Coke was frequently, owing to local circumstances, and varying conditions of the weather, almost unsaleable in certain districts. By converting it into gaseous fuel of the highest thermal value, through the agency of steam at a high temperature, a considerable proportion of the nitrogen of the coke might be simultaneously obtained as a by-product. In the course of the treatment with steam, the sulphur of coke made its appearance in the form of sulphuretided hydrogen, a condition most favourable for its ready and profitable removal from the gaseous fuel. In this way it was suggested that a sulphur-free product could be obtained which could not fail to commend itself if supplied for use in such industries as those of Sheffield and Birmingham. Allusion was made to the fact that it was 20 mend itself it supplied for use in such industries as those of Sheiheld and Birmingham. Allusion was made to the fact that it was 20 years since the late Sir William Siemens applied gaseous fuel to the heating of the retorts of the Paris gas-works, with perfect success. A similar application in this country had not been known for more than three or four years. Some calculations were made of the thermal value of the gaseous fuel which it was proposed to manufacture, but they were extremely brief, and related to the figures obtained in the course of the experiments. in the course of the experiments.

MANCHESTER GEOLOGICAL SOCIETY.

The ordinary monthly meeting of the members of the above society was held on Tuesday at Manchester, the President—Mr. R. PILKINGTON—occupying the chair. Prior to the commencement of the ordinary business the Chairman referred to the death since the of the ordinary business the Chairman referred to the death since the last meeting of Mr. J. E. Forbes, F.G.S., one of the hon, sees. of the Society, and announced that the Council had resolved to forward a vote of condolence to the wilow of Mr. Forbes on the great bereavement she had sustained. He said the death of Mr. Forbes would be a great loss to the Society, and he would move that the meeting endorse the action which the Council had taken. This was seconded by Mr. AITKEN, who spoke highly of the services which Mr. Forbes had rendered to the Society, and unanimously agreed to.

SAFETY-LAMPS FOR MINERS.

This question again came before the members for consideration.

This question again came before the members for consideration.

Mr. JOSEPH DICKINSON, H.M. Chief Inspector of Mines, drew attention to Herr Wolff's apparatus for the relighting of lamps, which was exhibited at the previous Wigan meeting by Dr. Foster, Inspector of Mines. One of these lamps had been sent to him by Dr. Foster, and as probably there were members present who had not seen it at Wigan it would, perhaps, be of interest if they had now an oppor-Wigan it would, perhaps, be of interest if they had now an or question was asked whether the power thus placed in a miner's hands of relighting his lamp might not bring with it an element of danger, as supposing the lamp were full of explosive gas, and a light suddenly struck in the midst of it there was the question when ther there might not be a great risk of explosion by the light being thus suddenly lit, which would not exist where the gas had been accumulating gradually in a lamp which was lighted.—Mr. DICKINaccumulating gradually in a lamp which was lighted.—Mr. DICKINSON said this might possibly under some circumstances be a source
of increased danger, and in reply to further questions whether this
relighting arrangement would, as had been suggested by Dr. Foster,
be an infringement of the Mines Regulation Act, Mr. Dickinson said
it could searcely be urged that the means of relighting such as the
Wolff lamp possessed were plainly and straightforwardly an infringement of what was really the intention and spirit of the Act of Parliament, because the means of relighting was not absolutely and
independently in the possession of the miner, but was as much under
lock and key as the lamp itself. Looking at the great inducements
which existed for a miner to unlock and relight his lamp in a mine
far away from the authorised station for relighting, he could not
help thinking that there was room for the introduction of a means
of relighting such as the one before them, especially in a mine where of relighting such as the one before them, especially in a mine where

the lighting station was a long distance away, and the travelling

pads were bad.

Mr. H. N. FOED, of Macclesfield, next exhibited a miner's se Mr. H. N. Ford, of Macclesfield, next exhibited a miner's safety-lamp, which he said had been invented and constructed with the view of its being impossible to explode it. The body was solidly cylindrical, there being no gauze for the admission of gas by direct horizontal current. The upward currents of the products of combustion prevented the entry of gas downwards and the entrance upwards (in the direction of ventilation) at once extinguished the light. The locking was so arranged that the lamp could not be unlocked without extinguishing the light. The plan adopted for locking the lamp consisted of the insertion of a bolt which was held by a bar dropped perpendicularly upon a bolt within the lamp. To unlock the lamp this bolt had to be withdrawn, and this could only be done by turning the lamp upside down, which at once extinguished the light. In the discussion it was suggested whether this arrangement might not induce colliers to carry matches with them to relight the lamp. Mr. Ford replied that the upsetting of the lamp would be discovered by the stains of oil which would result, but this members scarcely considered would be a sufficient protection, as such stains could be removed by the collier.

could be removed by the collier. THE MINERAL VEINS IN THE ENGLISH LAKE DISTRICT. The Hon. Sec. (Mr. J. S. MARTIN, Inspector of Mines,) read a paper, contributed by Mr. J. D. Kendall, F.G.S., "On the Mineral Veins of the English Lake District." The writer stated that it was not a little contributed by Mr. J. D. Kendall, F.G.S., "On the mineral value the English Lake District." The writer stated that it was not a little remarkable 'that, although mining was said to have been conducted in the above district since the time of the Romans, so little information existed with regard to the nature of the deposits that had been worked. A few isolated pages in the history of the mining operations were to be met with in some antecedent publications; but there was almost nothing recorded as yet of a geological character. After giving a detailed description of the geological structure of the district in which the veins occurred, the writer said there were many different kinds of minerals to be found in most of the veins, yet there was in every vein a preponderance of one particular mineral. Taking the metallic minerals as the basis of classification, the veins occurring in the district might be distinguished as follows:—1, lead; 2, copper; 3, 'zinc; 4, iron; and 5, manganese. Most of the veins hitherto worked occurred in the lower silurians and in the granite and granitoid rocks associated with them. Mineral veins had, however, been met with in the upper silurians; but they were rare, and, so far, had not proved of any great economic importance. In the Coniston grits and flags, about midway between Staveley and Kentso far, had not proved of any great economic importance. In the Coniston grits and flags, about midway between Staveley and Kentmare, a lead mine was worked for several years, and a considerable amount of work done, but the results were not satisfactory. Other trials were made between Winster and Crook, in the Bannesdale trials were made between white and clock, in the Daintestate slates, and a small quantity of galena was obtained, but not sufficient to induce the adventurers to continue their work. In the lower siluthem had vielded large quantities of minerals. In the Borrowdale Rocks there were the famous copper mines of Coniston, and the equally important lead mines of Greenside, besides a large number of veins of both lead and copper in other parts of the distributions. of veins of both lead and copper in other parts of the district, many of which had not been worked at all, and others only partially. Veins of hematite were abundant in these rocks, but very few of them had been explored on account of their great distance from the railways. The most extensive workings had been at Tongue Gill, near Grasmere, and at Dunnerdale, in the Dudden Valley. It was in these rocks that the Borrowdale graphite was met with. In the Grasmere, and at Dunnerdale, in the Dudden Valley. It was in these rocks that the Borrowdale graphite was met with. In the Skiddaw slates veins of both lead and copper occurred. Among the mines in which ores of the former metal were worked, it would suffice to mention Loweswater, Goldescope, Newthwaite, Barrow, Brandlehow, Force Crag, Thornthwaite, and Woodend. Some of these mines worked ores of zinc as well. The principal copper mines in the Skiddaw slates were at Goldescope and Dalehead, but there were several other copper veins in these rocks, some of which had not been proved, and others had been worked but slightly. Hematite had been worked very extensively in these rocks for a number of years at Knockmarten and Kelton Fell, and these were almost the only places at which any serious attempt had been made to find it. Veins of manganese ores also occurred in these rocks, but they had not yet been worked, except in the most trifling way. In the Eskdale granite and the Ennerdale syenitic granite the only veins that had been much worked were those of hematite. In the former rock this ore had been obtained in Eskdale, on both sides of the valley opposite Boot, and also near the King of Prussia. It had also been worked near Bootle. In the latter rock several veins had been worked in a small way near Ennerdale Lake, and it was now proposed to make a railway to them. In the hypersthenice and its associated rocks of Carrock Fell and the neighbourhood both lead and copper veins had been worked, notably neighbourhood both lead and copper veins had been worked, notably at the mines of Roughten Gill, Silver Gill, &c. There did not, however, appear to be any single instance in the district of the same vein being worked in the granite or granitoid rocks, and in the sedimentary or worked in the grante or grantitoid rocks, and in the sedimentary or volcanic rocks surrounding them. Veins occurred between different kinds of rocks, as in Clensgill, Ennerdale, where a vein of hematite had been partially worked, with Skiddaw slate on one side of it and syenitic granite on the other. With regard to the direction of the veins there was great variation, even when the preponderant mineral was of the same kind, and there was also considerable variation of "hade" both in direction and amount. Some veins were found to tion of "hade" both in direction and amount. Some veins were found to "hade" towards the east, whilst others had a westerly inclination. The amount of "hade" in some cases was nearly plumb, whilst in others it was as much as 35° from the vertical. But notwithstanding these great variations in direction and "hade," which at first sight were great variations in direction and "hade," which at first sight were almost confusing, a considerable amount of order might be discerned in them, as on closer inspection it was found that both the direction and the "hade" of the veins almost invariably corresponded with the planes of one or other of the different sets of joints by which the enclosing rocks were intersected. The breadth of the veins was variable, some having an average breadth of 3 or 4 ft. only, whilst others were as much as 5 or 6 ft. The extreme depth to which the veins descended had not yet been proved. The deepest exploration was at Coniston, where one of the veins had been worked to a depth of 260 fms., and was still going down without any apparent indications of nipping out; in fact, it was quite as wide now as when near the surface. The low price of hematite as compared with that of lead and copper necessarily prevented veins of the former mineral being worked to the same extent as the latter, and the breadth of the hematite veins at lower levels consequently remained unknown. When the veins were examined internally it was found that they were divisible into two classes—one with veinstone, and the other tunity of inspecting this very simple arrangement which Herr confined to a narrow strip along one wall, and at others extending Wolff had introduced for relighting safety-lamps. The lamp having been handed round for inspection a short discussion took place. A nature of the mineral veins, no matter whether they had vein-stones

rock which originally existed where the veins now were, and was a result of metamorphism.—4. The metallic minerals, hematite excepted, were deposited in cavities of the veinstone from chemical solutions; and—5. That the hematite veins were substitutional desolutions; and—5. That the hematite veins were substitutional deposits, the age of which was probably the early permian. This last conclusion, the writer added, was demonstrated by two facts. First, that rounded and smoothed pieces of hematite had been met with the breecia; and, secondly, that a body of hematite occurred in the upper coal measures, about five miles from Whitehaven.

The usual vote of thanks was passed, and the discussion on this naner adjourned.

GEOLOGICAL EXCURSION TO LINCOLN.

GEOLOGICAL EXCURSION TO LINCOLN.

The Geologists' Association have arranged to make an excursion to Lincoln on Easter Monday and Tuesday, which is likely to be at once interesting and instructive, since Messrs. W. H. Dalton, F.G.S., and A. Strachan, M.A., F.G.S., both of the Geological Survey, and Mr. W. D. Carr, of Lincoln, have undertaken the duties of directors. On the arrival the parties will proceed to the large brick pits of Messrs. Swan Bros. and Bourne, on the North Cliff. Here, under 15 ft. of inferior colite and 3 or 4 ft. of ironstone of the Northampton sand series (but, unfortunately, so crowded with phosphatic pebbles as to be commercially valueless), is a section 60 ft. in vertical height of the upper lias clays, divisible into the life-zones of ammonites bifrons, A. communis, and A. serpentinus. Other species also occur abundantly and in good preservation. The termination of each zone (except the upper one, whose topmost beds have been removed by denudation), is marked by a bed of fragments of shells loosely packed together, with little or no clay as matrix. The upper loosely packed together, with little or no clay as matrix. The upper of these, terminating the A. communis zone, is characterised by nucula hammeri, the lower, which marks the disappearance of A. serpentinus, contains a large undescribed lucina. Each of these shell-beds reaches a foot or more in thickness, and is crowded with

serpentinus, contains a large undescribed lucina. Each of these shell-beds reaches a foot or more in thickness, and is crowded with small gasteropoda, &c.

About 40 ft. below Messrs. Swan's pit is a terrace, marking the top of the middle lias, and an old brickyard just below shows these beds, which are, however, better seen elsewhere. The party will then return to Lincoln on foot, and proceed by tramcar from the Witham Bridge, across the wide spread of river gravel extending to the southern suburb of Bracebridge, on entering which Mr. Best's brickyard may be seen on the left hand, reaching to the top of the hill, and exhibiting a rather more complete section than Messrs. Swan's, but in a way less favourable for examination. Fully 100 ft. of the upper lias is or has been exposed here, but talus hides a considerable part, and is often in a state of quagmire, precluding access to the remaining faces. We shall therefore pass on to the pit of the Bracebridge Brick Company, 2½ miles south of Lincoln. Here 20 ft. of middle lias clay, with beds of ferruginous sandstone, overlie 30 ft. of lower lias with grey septaria. N.B.—By middle lias is meant the zone of A. margaritatus, that of A. capricornus being relegated by the Geological Survey to the lower lias. There is no real break, as A, margaritatus occurs in fair abundance in a belt of phosphatic septaria, 10 ft. below the lithological boundary indicated by the lowest iron-sandstone band, the bottom of which contains pockets of rolled pebbles of phosphate. 1½ mile further south is the Lincoln Brick! Company's pit, close to Waddington station. This shows 15 ft. of lower lias clay, abounding in A. capricornus and other fossils.

On the second day the party will leave Lincoln by 8:38 train for other fossils.

other fossils.

On the second day the party will leave Lincoln by 8.38 train for South Willingham (17 miles north-east). A visit will first be paid to a brick-yard in Kimeridge Clay, a little to the east of the station, where fossils may be collected, and the great septaria common in this part of the formation are well seen. Thence (\frac{1}{2}\text{ mile east}) up the railway to the west end of Benniworth Tunnel, where chalky boulder clay, underlain by stratified grayls, is seen resting on the lower. clay, underlain by stratified gravels, is seen resting on the lower neocomian sandstone. At the east end of this tunnel, which is # mile long, similar glacial beds are seen resting on the bed of clay with collitic grains of iron oxide, which forms the base of the middle neocomian clays; in the cutting \(\frac{1}{2} \) mile further east, this iron ore, with numerous fossils, is seen resting on snow-white sands of lower neocomian age. Crossing thence to Donnington Station (about 1\(\frac{1}{2} \) mile comian age. Crossing thence to Donnington Station (about 11 mile east), through a cutting in which a fossiliferous zone in the lower neocomian sandstone is exposed, a visit will be made to a sand-pit and a brick-pit (both close to the station) in the middle neocomian clays, where fossils (amongst which are crustacean remains in september 10 miles the callested. From this point the railway range. tarian nodules) may be collected. From this point the railway runs in shallow cuttings in this clay as far as the cuttings in the carstone (I mile east), where at the entrance to the Withcall Tunnel there are clear exposures of the upper 30 ft. of the carstone, of the whole of the red chalk, and of 10 to 20 ft. of the white chalk. Those who re-main in Lincoln till Wednesday or Thursday will have opportunities of seeing the higher members of the lower collite series. The Cornbrash of Sudbrook in particular is excessively rich in fossils, whilst the Greetwell and Heighington cuttings afford sections of the great colite faulted against the Lincolnshire limestone (inferior colite).

SOUTH STAFFORDSHIEE INSTITUTE OF IRON AND STEEL WORKS MANAGERS.—The report presented at the annual meeting on March 29 was one on which the members may fairly be congratulated. The prosperity of the Institute continues. There are now 108 ordinary members, and the accounts show a sufficient balance—191. 19s.—in hand. For the ensuing year Mr. W. J. Hudson (Woodside Ironworks) was unanimously elected President, and Mr. R. Smith-Casson Vice-President, and Mr. William Yeomans, the hon. secretary, was reelected, and Mr. Barnett treasurer. A committee of 13 was also elected. Mr. W. H. Howe and Mr. Bagshaw were elected members. The President (Mr. Moses Millard) then, on behalf of the Institute, presented Mr. Richard Edwards, a former hon. secretary and President, with a handsome timepiece. In doing this Mr. Millard spoke of the manner in which Mr. Edwards rescued the Institute from the lethargy into which it was sinking. Mr. Yeomans was presented with a silver watch, and his daughter, who had acted as his amanuensis, also received a silver watch. All these presents were suitably SOUTH STAFFORDSHIRE INSTITUTE OF IRON AND STEEL WORKS variable, some having an average breadth of 3 or 4 ft. only, whist others were as much as 5 or 6 ft. The extreme depth to which were as much as 5 or 6 ft. The extreme depth to which the veins descended had not yet been proved. The deepest exploration was at Constson, where one of the veins had been worked to a depth of 260 fms., and was still going down without any apparent indications of nipping out; in fact, it was quite as wide now as when near the surface. The low price of hematite as compared with that of lead and copper necessarily prevented veins of the former minerabeing worked to the same extent as the latter, and the breadth of the hematite veins at lower levels consequently remained unknown. When the veins were examined internally it was found that they were divisible into two classes—one with veinstone, and the other without veinstone. The first class included veins of lead, copper, and sinc, and the second composed those of hematite and manganese. The manganese ores were not common in the district, and only one or two had been but partially worked, so that it was not possible to say much about them, for the ore seemed to occur in them much way as hematite, being sometimes confined to a narrow strip along one wall, and at others extending completely across the vein. In taking a general view of the inensity across the vein. In taking a general view of the inensity and the second course of the mineral veins, no matter whether they had vein-stones or not, a close observer would not fail to see the apparently semi-stratified form assumed by everything in the veins. The objects of the mineral veins, no matter whether they had vein-stones and the conditions of the principal or semi-stratified form assumed by everything in the vein. The most of the principal or semi-stratified form assumed by everything in the vein. The object of the principal or semi-stratified form assumed by everything in the vein. The object of the principal or semi-stratified form assumed by everything in the veins. The object of the

Begistration of New Companies.

The following joint-stock companies have been duly registered:

The following joint-stock companies have been duly registered:—
THE GLAMORGANSHIRE BANKING COMPANY (Limited)—Capital
1,750,000L, in shares of 30L and 5L. To acquire, take over, and
carry on the business of a company bearing the same name established at Swansea. The subscribers are—L. L. Dillwyn, Swansea, 200; T. A. Marten; Swansea, 200; J. H. Rowland, Neath, 200;
C. H. Bath, Swansea, 300; J. Cady, Swansea, 400; R. Voss, Bethnal
Green, 200; J. C. Richardson, Swansea, 2000; J. Buse, Swansea,
200; R. J. Dickson, Swansea, 100; T. D. Griffiths, Swansea, 230.
GORDON SPINNING COMPANY (Limited).—Capital 60,000L, in
shares of 100L Carrying on at Oldham the business of cotton
spinning and doubling, manufacturing cotton, silk, wool, flax, &c.
The subscribers (who take one shares each) are—J. Spencer, Oldham; J. J. Hall, Oldham; J. Kenworthy, Oldham; J. W. Cowper,
Oldham; T. Norcliffe, Oldham; H. Stansfield, Didsbury; W. Lees,
Oldham.

Oldham.

SEINNER AND HOLFORD (Limited).—Capital 100,000l., in shares of 10l. To acquire by purchase the Waleswood Collieries, situated in the parishes of Wales and Treeton, Yorkshire, and all works, buildings, locomotives, and other engines, machinery, tools, implements, plants, effects, &c., and the good-will of the business of coal masters, lately carried on by Messrs. Skinner and Holford, and to continue the said business in all branches. The subscribers (who take one share each) are—S. Skinner, Rotherham, colliery proprietor; J. Hall, Hyde, cotton spinner; J. A. Lingden, Alfreton, engineer; W. Gillatt, Norton Lees, no occupation; E. Eastwood, Tupton, railway wagon builder; W. D. Holford, Old Whittington, gent.; J. H. Ashton, M.E. Ashton, M.E.

GEORGE G. BUSSEY AND COMPANY (Limited) .- Capital 20,0001., in shares of 5%. To acquire and continue a business of general man-facturers and merchants at Rye-lane, Peckham, and in Melbourne. The subscribers are—G. G. Bussey, Rye-lane, 3000; W. E. Bussey, Rye-lane, 100; G. F. Bussey, Camberwell, 1: S. E. Bussey, Melbourne, 100; C. Eyre, Peckham, 100; H. C. Brown, Ealing, 110; J. Sangster, 31, Paternoster-row, 1

Paternoster-row, 1.

THE NORTH TOLIMA SILVER MINES (Limited).—Capital 60,000l., in shares of 1l. To adopt and carry into effect an agreement made between C. O. Rogers of the one part, and S. A. Cobbett, as trustee for the company, of the other. To purchase or otherwise acquire, develope, and work lands, estates, mines, mining rights, mineral properties, grants and privileges, ores, minerals, and other properties situated in the United States of Colombia, South America, or elsewhere; for the purpose of carrying on all operations connected with mining, smelting, and reducing of ores and minerals, whether obtained from the mines belonging to the company or from any other with mining, smelting, and reducing of ores and minerals, whether obtained from the mines belonging to the company or from any other source. The subscribers (who take one share each) are—A. G. Dickson, 10, Duke-street, major; J. Fletcher, 2, St. Helens-place, East India agent; H. T. Sankey, Canterbury, solicitor; C. O. Rogers, 10, Blomfield-street, merchant; S. A. Cobbett, 10, Blomfield-street, secretary; W. L. Dunn, Clapton, accountant; F. L. Marston, Fulham, clerk. The following gentlemen are to be the first directors—A. G. Dickson, J. Fletcher, H. T. Sankey, C. O. Rogers, and B. L. Barrow; qualification 200 shares.

The TUCUMAN ESTATES SUGAR PLANTATION AND FACTORIES

THE TUCUMAN ESTATES SUGAR PLANTATION AND FACTORIES COMPANY (Limited).—Capital 600,000l., in shares of 10l. To acquire a certain property in the Argentine Republic for the purpose of carrying on a planting and sugar manufacturing business in all branches. The subscribers (who take 50 shares each) are—W. T.

branches. The subscribers (who take 50 shares each) are—W. T. Wythes, Birmingham; J. Lloyd, 12, Colcherne-road; C. A. P. Talbot, Watford; C. A. Messiter, Yeovil; H. Knight, 1, Royal Exchange Buildings; J. E. Blair, Worcester Park; A. C. Wilkins, Wimbledon. Granville Mill Company (Limited).—Capital 80,000l., in shares of 100l. To carry on at Oldham the business of cotton manufacturers and spinners in all branches. The subscribers (who take five shares each) are—J. Clegg, Oldham; A. Mills, Oldham; J. Harrop, Oldham; H. Lees, Oldham; A. J. Haworth, Oldham; W. Taylor, Oldham: S. Gartside, Oldham S. Gartside, Oldham

UNITED MORTGAGE COMPANY (Limited) .- Capital 20,0001. in shares of 10l. To make advances upon property of any description, either real or personal. The subscribers are—C. L. Vaugh, Bridgend, 5; W. R. Randall, Bridgend, 10; J. M. Randall, Bridgend, 10; T. J. Hughes, Bridgend, 1; J. McLachlan, Bridgend, 1; W. Randall, Bridgend, 10; G. B. Harris, Bridgend, 1.

THE CENTRAL AFRICAN GOLD EXPLORING EXPEDITION (Limited).—Capital 10,0001, in shares of 11. To acquire by purchase or otherwise any lands, mines, minerals, and mining rights, or other property in Africa; also any concessions, rights, and interests in the property in Africa; also any concessions, rights, and interests in the same, and to carry on the business of miners and prospectors, and to get ores and minerals, reducing, or otherwise treating, or dealing with same. The subscribers are—M. E. Jeffries, 27, Palace Chambers, land agent, 1; J. M. Coward, 3, Bridge-street, secretary, 1; E. Beall, 46, Queen Victoria-street, solicitor. 5; H. S. Cooke, 46, Queen Victoria-street, secretary, 4; E. Wilde, 38, Tiverton-road, clerk, 1; A. Pearse, South Tottenham, accountant, 1; R. B. Tennent, 12, Walbrook, merchant, 1.

THE ROCHDALE COTTON SPINNING COMPANY (Limited).—Ca-

brook, merchant, 1.

THE ROCHDALE COTTON SPINNING COMPANY (Limited).—Capital 100,000*l*., in shares of 5*l*. To erect a mill, weaving shed, or factory, and to carry on a business in connection therewith. The subscribers (who take one share each) are—J. Smith, Rochdale; S. Spencer, Rochdale; J. Mather, Rochdale; M. Ashworth, Rochdale; J. H. Allsopp, Rochdale; J. H. Stewart, Rochdale; J. Ashworth, Rochdale; S. Stoll, Rochdale; J. Taylor, Rochdale; J. Barlow, Rochdale: R. Taylor, Rochdale.

THE SUCCEMPORE GUARDIAN PRINTING AND PUBLISHING COM-

take over, and carry on the business of the Southport Glaciarum, and Ice Manufacturing Company (Limited). The subscribers (who take one share each) are—E. Holden, Shipley; J. Boyll, Shipley; T. H. Sykes, Shipley; G. Pilkington, Shipley; H. Blumberg, Shipley; G. H. Hyde, Shipley; W. E. Smith, Shipley.

THE DUCHESS SPINNING COMPANY (Limited).—Capital 70,000l., in shares of 5l. To sequire land near Oldham, and erect thereon mills for the purpose of carrying on a cotton spinning, doubling, and manufacturing business. The subscribers (who take one share each) are—J. Milne, Shaw; J. Woltencroft, Shaw; J. Kempster, Shaw; J. Henthorn, Shaw; N. Hopwood, Shaw; R. E. Fitten, Shaw; J. Shaw, Shaw.

Shaw.

THE LIVERPOOL STEAMSHIP TRUST AND AGENCY COMPANY our industrial and social life (Limited).—Capital 100,000L, in shares of, 10L. The general business escape general observation.

Buch a collection, as that of insurance agents, shipowners and shiphusbands, agents for shipowners, merchants, &c. The subscribers (who take one share each) are—R. Tomlinson, 101, Leadenhall-street; G. Thomson, Newcastleon-Tyne; J. [Lornie, jun., Liverpool; R. Wakeham, Liverpool; J. in placing at their disposal, coular and statistical information, which

Tomlinson, Liverpool; G. J. S. Eastham, Liverpool; T. Reay, Liverpool.

THE FLORIDA INVESTMENT AND AGENCY COMPANY (Limited).—
Capital 100,000%, in shares of 10%. To acquire, by purchase or otherwise lands and tenements in the State of Florida and other parts of the United States, and to carry on in connection therewith an agricultural, stock raising, and fruit cultivating, &c., business. The subscribers (who take one share each) are—R. W. Surtees, 72, Bishopsgate-street; J. Orlebar, 37, Walbrook; H. Wharton, 32, Weymouthstreet; W. Dunn, Blackheath; A. Fell, 46, Queen Victoria-street; E. N. Fell, 198, Earl's Court-road; R. J. J. Shrimpton, Croydon.

DANIEL OWEN AND COMPANY (Limited).—Capital 74,000%, in shares of 10%. To acquire, print, and publish the Western Mail newspaper at Cardiff, South Wales. The subscribers (who take one share each) are—D. Owen, Corrbridge; H. L. Carr, Cardiff; J. M. Maclean, Chiswick; H. M. Thomas, Cardiff; D. Owen, Corrbridge; S. A. Owen, Corrbridge; J. Holder, 40, Cheapside; F. Ruddock, Lewisham.

OLDHAM AND DISTRICT FINANCIAL AND BUILDING COMPANY (Limited).—Capital 25,000L, in shares of 5L. A combined financial and building society's business in all branches. The subscribers (who take one share each) are —W. H. Cooke, Oldham; M. Garfitt, Oldham; J. Cheetham, Oldham; E. Skin, Oldham; R. H. Cowell, Oldham; D. Rothwell, Oldham; W. Bowers, Oldham.

THE EQUITABLE MUTUAL INVESTMENTS ASSOCIATION (Limited).—Capital 5000L in shares of 11. The business of financial scents.

THE EQUITABLE MUTUAL INVESTMENTS ASSOCIATION (Limited).
—Capital 5000L, in shares of 1L. The business of financial agents, coupon brokers, bill discounters, and all other financial business. The subscribers (who take one share each) are—C. Eve, Upper Norwood; E. E. Cooke, 11, Great Percy-street; C. R. Drake, Stamford Hill; C. F. N. Howard, Kentish Town; A. A. Rhoades, Croydon; A. W. W. Heyther, Gipsy Hill; A. E. Drake, 90, Kyverdale-road.

THE FINSBURY ESTATE COMPANY (Limited).—Capital 25,000L, in shares of 25L. The subscribers (who take one share each) are—T. Davies, Lombard-court; W. Dawson, 119, City-road; G. Doninson, Canonbury; T. Felton, Upper Clapton; E. A. Pocock, Lordship Park; H. Pocock, Barnsbury; C. W. Tubly, Hornsey.

THE SOUTH YORKSHIRE COAL FIELD, AND ITS FUTURE.

THE SOUTH YORKSHIRE COAL FIELD, AND ITS FUTURE. In no mining district in the kingdom does there appear to be a brighter future in store than for South Yorkshire. Its inland position, and its distance from the metropolitan and other southern markets, has prevented it from making that progress which its extent and the value of its coal seams would under other circumstances have ensured for it. But there is now every promise of two most important outlets being secured for it, that must add vastly to its production, and render the opening out of new fields a necessity. The completion of the Hull and Barnsley Railway will permit vast quantities of its fine steam coal to reach the Humber, and thence to all parts of the world. It is now used by the steamers running from Hull, and a good deal is being exported, but this latter is comparatively trifling, the total last year having only been 602,530 tons, whilst in the same period there was sent to foreign ports from Cardiff 6,761,455 tons, and from Newcastle 4,559,233 tons, yet Hull claims to be the third of our shipping ports. One reason for this is, no doubt, the existing railway rate, while from yet Hall claims to be the third of our shipping ports. One reason for this is, no doubt, the existing railway rate, while from the Barnsley district it is 3s. 10d. per ton—is only 2d. per ton less than from the Tyne to the Thames. By the new line it is expected that the rate from Barnsley to Hull will be 2s. to 2s. 3d. per ton, and this will lead to a vast tonnage of the "hards," in particular, being sent direct to Hull, probably from 40,000 to 50,000 tons a week on to the line from the collieries in South Yorkshire. The steam coal would leak be placed in a resistion to converte on the Thames with that also be placed in a position to compete on the Thames with that from other districts where the collieries are near to seaports. This is impossible at present, seeing that the railway rate from the district is 8s. 3d. per ton to the Metropolis, exclusive of 9d. per ton for truck hire, and 2d. for drops, making 9s. 2d. at the railway; but if the coal is to be put on to the Thames there is an additional charge of 2s. 6d. per ton for lighterage. This is prohibitive, with the rate from New-castle at only about 5s. 1d. per ton, including City dues. A low rate to the Humber by the Hull and Barnsley Railway, and a charge of about 2s. 6d. per ton by sea to the Thames would put the South Yorkshire "hards" in a position to compete with any of the seaborne coal that reaches London. This will give some idea of what the Hull and Barnsley Railway is likely to accomplish for the South Yorkshire coal field. In addition great things are expected from Yorkshire coal field. In addition great things are expected from the Manchester and Liverpool Ship Canal. The leading counsel for the promoters, Mr. Kember, said in his

opening address, that at Partington, where the Cheshire Lines crossed the canal, it was proposed to make a basin and to form branch railways to the Cheshire Lines Railway and to the neighbouring coal fields. The Cheshire Lines Railway was worked by the Midland, Great Northern, and Manchester, Sheffield, and Lincolnshire Railways jointly, which ran into the South Yorkshire coal field, and if the canal ware mede Partington would be the nearest port to South the canal were made Partington would be the nearest port to South Yorkshire. Mr. Hartley, the manager of the Dodworth Silkstone Colliery in his evidence before the committee a few days since, said the establishment of the ship canal at Partington would be of immense advantage to the South Yorkshire coal field, and he thought the carriage of coal to Partington would not be more than 2s. 6d. per ton. The position that the South Yorkshire coal field is likely to enjoy at no distant date will be gleaned from the above brief notice of passing events.

INTERNATIONAL MINING EXHIBITION.

Rochdale: R. Taylor, Rochdale: J. Taylor, Rochdale: J. Barlow, Rochdale: R. Taylor, R. Taylor, R. Taylor, R. Taylo

vestor, and to better the condition of the miner, as it will bring mining to a more legitimate basis, and tend to settle labour of tions. We know little, he continues, of the life and dangers of collier and the delver for iron, precious metals, and diamonds, they do not meet us at every turn, like the tradesman or mechanic, neither have many persons the least idea how a mine looks, what constitutes ore, how that ore is taken out, milled, and reduced to bullion, or undergoing one of the many other processes of reduction. It is in carrying out such illustrations and objects as these, that great exhibitions discharge their most distinctive and beneficial They bring together, in a visible and striking form, those features of our industrial and social life, which otherwise by chance or necessity

[APRIL 5, 1884.]

They could not otherwise obtain, concerning the developed and undeveloped mineral resources of England, her colonies, and all foreign countries. The wonderful influence exercised by the great International Exhibition of 1851 has given birth to exhibitions of all findustries and trades, and last, but not least, the International Fisheries Exhibition, which like all vigorous and well-conceived ideas, has been an immense success, and has given an impetus to the fishing industries all over the world. What the Fisheries Exhibition has done for fishing and fishermen in spreading a world-wide knowledge of all the latest inventions applicable to the craft, thesafe guarding and preservation of lives, the improvement of life and labour status, an international mining exhibition in its scope may do for the miner and the development of an industry as yet little known or understood. It is an undertaking, Mr. Zeehandelaar contends, in which all nations can cordially co-operate, because the results affect all mankind. Promises of support have already been received by him from America and other countries, and there is every reason to believe that the undertaking, if under powerful English patronage, will meet with unparalleled success, and prove a benefit to science, labour, and capital.

Roughly and very incompletely mentioned, the Exhibition should, it is considered, embrace under proper classification, mines, minerals, commercial and economic processes and appliances, economic condition of miners, lectures, conferences, &c., everything appertaining to deep, hydraulic, and other mining—specimens of metals, mineral oils, mineral waters, and minerals as medicines. Hence the Exhibition would include:—I. Models of mills, ore-houses, engine-houses, ovens, machinery, smelters, &c. Maps and plans of mining and colliery districts. Topographical description of mineral-bearing countries. Records of gold washing. Coal waste as artificial fuel for mines and mills.—II. Machinery and appliances employed in mining, engine

statistics, surveys, statistics on mining assaying. Literature on mining and metallurgy. Essays.

Not less interesting than the Exhibition itself will be the conferences and lectures on geology and mineralogy, which, with the conferences on labour and labour strikes and the like, ought to make the whole scheme sufficiently attractive to ensure succ

MINERAL RESOURCES OF NOVA SCOTIA.

We have been favoured by the Government Inspector of Mines for the Province—Mr. Edwin Gilpin, jun., M.A., F.G.S.—with his annual report to the Commissioner of Public Works which contains the following summary showing the mineral production of Nova Scotia during the year 1883 compared with that of the previous year:—

	1882.		1833.
GoldOzs.		*****	15,446
Iron oreTons	42,135	*****	52,410
Manganese ore	205	*****	150
Copper ore	*******	*****	60
Coal raised	1,365,811	*****	1,422,553
Gypsum*	133,426	*****	144,668
Building stone*	4,357	*****	181
Coke made	26,731	******	44,189
Grindstones, &c.*	2,450	*****	155
Limestone	16,584		26,477
Miles And a lead of Clark for the second	1000		4 - 1 00#

The total sales of COAL for the year 1883 amounted to 1,297,523 tons, against 1,250,179 tons in 1882, being an increase of 47,344 tons. The most noticeable points in the coal trade are:—The home sales were 471,327 tons, compared with 458,952 tons during the preceding year. The coal sent to the Province of Quebec amounted to 410,605 tons, against 383,031 tons in 1882, an increase of 27,574 tons. The sales to New Brunswick show an increase of 14,123 tons. The sales to Newfoundland decreased from 79,732 tons in 1882, to 61,678 tons during the past year. The sales to Prince Edward Island show a decrease of 2000 tons. The sales to the United States were 102,755 tons, being an increase of 3453 tons over the sales of the previous

tons, being an increase of 3453 tons over the sales of the previous year. The amount of coal sent to the West Indies increased from 22,386 tons in the year 1882 to 31,860 tons during the year 1883. The sales to other points present no features of interest.

The increase in the yield of GoLD during the past year, although not as large as during the year before, is still of a satisfactory character. The total yield of gold for the year 1833 was 15,446 ozs. 9 dwts. 23 grs., being, with the exception of the year 1877, the largest return since the year 1871, when a production of 19,227 ozs. was recorded. There were 25,954 tons of quartz, &c., crushed, which gave an average yield of 10 dwts. 21 grs. per ton crushed. This is the recorded. There were 25,954 tons of quartz, &c., crushed, which gave an average yield of 10 dwts. 21 grs. per ton crushed. This is the lowest yield per ton since the year 1869. As it is understood that, generally speaking, the year's operations have proved satisfactory from a financial point of view, it would appear that increased attention has been given to economy in mining and milling. The lowest yield per ton was in the Sherbrooke district, where 8470 tons yielded 3356 cas. 18 dwts., an average of 7 dwts. 22 grs. A considerable portion of this was from low grade ores, which ran from 4 to 6 dwts. per ton.

The experiments on low grade ores, as carried out at Mount Uniacke and Sherbrooke, show that with plant of the proper extent and with proper business economy in mining management and milling this grade of material can be treated with satisfactory results. The richest returns during the past year were made by the districts of Stormont and Chezetcook. The former district is worked by the Gallaghar Gold Mining Company, which extracted 1917 ozs. from 551 tons of quarts. The Chezetcook district, where the Oxford Gold Mining Company are at present almost the only operators, returned 2494 ozs. 5 dwts. from 1475 tons of quarts, an average yield of 1 oz. 13 dwts. and 10 grs. The returns of unproclaimed and other districts were not as large as usual last year owing to the proclamation of the district of Darr's Hill (Salmon River) which has hitherto figured under this head. The total number of days' labour was 97,703. This probably represents fairly the work performed in connection with mining operations, and is a little less than last year.

For COPPER the Coxheath Copper Mining Company did a great deal of work during the past summer at their mine near Sydney, Cape Breton. Their levels were extended, and a good deal of ore stoped out. A few tons of this were handpicked and sent away for testing. Experiments were made on the low grade ores, and it is stated that preparations are being made for the erection of a large concentration plant in the spring. Some of the copper was found to stated that preparations are being made for the erection of a large concentration plant in the spring. Some of the copper was found to carry 80 ozs. of silver to the ton. At Margaretville, in Annapolis County, some work was done in the vicinity of the old mine, opened on a vein carrying native copper, &c., in the trap. Discoveries of copper were reported from Pleasant Valley, Yarmouth County, Pomquet Forks, Antigonishe County, and Scottsburn, River John, and Malagash, in Pictou and Colchester Counties.

and Malagash, in Pictou and Colchester Counties.

In connection with Iron, the operations of the Steel Company of Canada were carried on vigorously during the year, and 52,410 tons of ore taken out, and 7672 tons of ankerite quarried for a flux. Some prospecting was done by Mr. Jas. McKay, Battery Hill, Pictou County, on veins of specular ore. The thickest vein opened was said to be 7 ft. wide, and of good quality. In the Indian reserve, near St. Peters, Cape Breton, Mr. Joseph Matheson reported finding several lodes of specular ore.

With regard to LEAD, SILVER, &C., some exploration was made by

[&]quot; Quantities shipped. Returns not completed. Amounts used in Nova Scotia

Mr. J. McLean on a lead ore, carrying silver and gold, found between Cheticamp and Cape Lawrence. A few barrels full of bismuth glance and molybdenite were shipped from Gabarus to the United States. Mr. Howard Clarke continued prospecting on his silver-lead property at Smithfield, and has shown that there is a very large amount of available ore. In his report on the mines and minerals of Nova Scotia, published in 1880, Mr. Gilpin alluded to the probability of the ores of antimony being discovered in workable quantities in this province. During the fall a vein of this ore was found near East Rawdon. The ore is reported to be of excellent quality, and to be present in workable amounts. A large sample has been mined and shipped to Swansea. Boreholes were started for the purpose of testing lands near Pictou, where signs of the presence of oil deposits have for some time been noticed. The exports of GYPSUM reached 144,668 tons, an increase of 11,242 tons over the production of the preceding year.

Preceding year.

For MANGANESE Mr. J. W. Stephens continued working his mine at Tenny Cape, and his brother also did some work at Tenny Cape and at Walton. Some prospecting was done at the latter place by Mr. Stevens and others, and at Onslow by Mr. Pendergast and others. At Loch Lomond, in Cape Breton, Mr. Moseley continued working his mines. Farther information on the manganese ores of Cape Breton was given in a paper recently read by the Inspector before the Nova Scotia Institute of Natural Science.

COAL MINING IN THE NORTH OF FRANCE. THE STRIKE OF THE ANZIN MINERS.

The attention of the public has lately been called to the strike of the miners employed at the collieries belonging to the Anzin Company, and to the fact that aid has been solicited from those similarly employed in this country. Few persons, however, are aware of the position of the Anzin Company, and the way in which they have treated the workpeople, or the sacrifices they have made to ensure the comfort of their men and families as well. The Anzin Company was established in 1757 by Messrs. Desandblown Tartia, the Prince of Croy (a German nobleman), and the Marquis of Cernay. There are about 54 pits, something like 24 being used for drawing, and the others for ventilation. The extent of the whole concession is nearly 60,000 acres, so that the immense field known as the Anzin is more than 18 miles long from east to west, and more than six miles wide. There are various qualities of coal, including anthracite, bituminous, Cannel, &c., and the annual outpit for the last few years would average upwards of 2,000,000 tons. One of the principal pits is that known as the Thiers, called after the eminent statesman of that name, and is known for its mechanical haulage underground and by the tail-rope system 2000 yards long.

At the other lpits there is haulage by endless chains, air-compressing and boring machines, whilst at the Renard there is a drawing engine of 450-horse power, vertical, with two cylinders 39 in. diameter, 5 ft. stroke, with GUINNOTTE'S expansive gear flat steel ropes 4 in. wide, \(\frac{1}{2}\) in. thick, the weight being 19 lbs, to the yard; the diameter of the drum is 19 ft., the iron pulleys 20 ft. diameter; the pit-head is made of iron, and the weight of each steel cage is 1 ton 16 cwts. The company employs 12,000 men, who earn from 3s. 6d. to 4s. per day; but they have certain and important advantages unknown to our own miners. The men work in shifts, generally commencing at four o'clock in the morning, the shift ending at two in the afternoon, when a second shift goes on. The method of working

The miners and their families are well cared for by the Anzin Company, for they have coal, medical attendance, and instruction gratis. Numerous schools and churches have been established, so that the children have a really good education, and if not it is the fault of their parents. More than half of the men employed live in the comfortable houses provided by the company. The Anzin Company spends upwards of 60,000*l*. a year in subsidies of this kind for their workpeople and their families, and the example thus set has been followed by the other companies in the Department of the Nord. It may be stated that the profits are by no means large, after the heavy expenditure and the concessions made to the men, for the coal fields are granted by the State, and the company have to pay for them a fixed rent per acre and so much per cent. of the profit, the maximum being understood to be about 5 per cent. Still, with all the advantages given to the miners, the valuable privileges conceded to their families, and the steady work and wages, the men have thought well families, and the steady work and wages, the men have thought well to strike and rush into poverty and distress, and even to appeal to the charity of foreign workmen.

VAN MINES-MONTHLY REPORT.

March 27.—The 120 West: At this end we are crossing north for Edward's shaft. I hope to have the rock-drill to work here in a few days which will greatly accelerate our speed. The cross-cut is set to four men at 140s, per fathom. The winze sinking below the 120 is down 33 ft. in a very favourable lode. We have now a well-defined footwall, and a lode showing lead in fair quantity. But simply the width of a winze at this point is no criterion of the value of the lode, which is very wide, and in the long cross-cut 5 fms. behind the winze produces some very fine lead. So far we are satisfied with the appearance of the lode in the winze. The lode in the two stopes in the back of this level is on the average 12 ft. wide, and worth for lead 45 cwts, per cubic fathom. The 105 is set to two men at 83s, per fm. Nothing of any importance to report from this end. The stope 170 fms. west of shaft in the back of this level is 9 feet wide, and worth 30 cwts. of lead ore per cubic fathom. The stope in the back of the 3sme level east and west of the 86 fms. winze are looking rather better, especially the eastern stope. Taken together they are worth on the average 30 cwts. per cubic fathom. The stopes in the back of 30 are worth 21 cwts. per cubic fm.; average width 24 ft. 6in. The stopes in the back of the 55 are worth 1 ton per fathom; average width, 22 ft. The 75 fms. Permanent level is set to four men to communicate with shaft cross-cut at 85s. per fathom. Edward's shaft is sunk 10 ft. below the 105. I have reset this to 10 men to sink 15 fms for 200! (same price as last) with an addition of 10s, per sett for timbering, and I hope to see the 120 in about 10 weeks hence if no mishap occurs in the meantime to interfere with our sinking. All surface work is going on regularly. Machinery in good order. Our monthly return is 150 tons of lead ore, and the same quantity of bende,—W. H. WILLIAMS. March 27 .- The 120 West: At this end we are crossing north for

THE TIN TRADE.

Messrs. STRAUSS and Co. (London,	Marc	h 31) issue	the	followi	ng
atistics of Tin :-					March 31 1883.	
Straits and Australian, spotTons	5,771	******	5,850	*****	4,583	
Straits, afloat	1,365	*****	1,330	100040	2,130	
Banca, on warrants	924	******	1,346	******	1,380	
Billiton, spot	918		837		825	
Australian tin in Holland Stocks in America, including quan-						
tity afloat			2,100			
Prices of Straits and Australian	14,456 282 S	******	14,388 £82 15		17,360 £96 10	
Deliveries during month in London Holland	1,409		1,648	*****	1,356	
Total	2,101	100000	2,211	*****	1,839	-

Shipments during the month from Strates to London 1150 tons, from Australia to London 150 tons, from Australia to America 225 tons, from Straits to America 326 tons; from Australia to America, 50 tons. Banca in Trading Company's hands and affoat, 2673 tons. Messrs. DE MONCHY and HAVELAAB (Rotterdam, March 31)

of the month, resulting in an advance of fully 2fl, since the opening. After the second week, however, the demand fell off, and with rather sharp fluctuations we close quiet, our quotations this day showing a rise of 3fl, since the end of February. The Dutch Trading Company's second sale in 1984 took place on the 27th inst., when 22,513 slabs Bancs were sold from 52fl, to 52/fl, average 52 kfl. Wext sale will be held towards the end of May.—Banca: The quantity of spot parcels offering has been unusually small during the month, and the price remained comparatively very high. From 51/fl, we advanced to 53fl, till the day before the sale: The sale's price therefor was considered very moderate, our present questation being 52/fl. In Billion a good business was done at advancing rates during the earlier part of the month, 52/fl. or spot, 53fl, for July delivery having been paid. Prices have since given way about 1½fl., our closing quotation being 51fl. On Tuesday, April 29, a public sale comprising about 10,000 peculs will be held at Batavia. The position of Banca tin in Holland on March 31, according to the Official Returns of the Dutch Trading Company. was—

nca tin in monand on alaren 31, according	gtothe	Omei	OFF TRESPERS	TIS OF	the Dure
ding Company, was— Import in MarchSlabs	1884.		1883.		1882.
Import in MarchSlabs	11,239	*****	11,827		9,545
Total three months	27,069	*****	34,209		
Deliveries in March	9.0 0	******	11,378		8,991
Total three months	28,994	*****			
Stock second hand	43,083	*****	44,170		48,776
Unsold Stock	75,000	*****	65,989	*****	58,722
Total stock	118,083	*****	110,159	*****	107,498
AfloatPeculs Statement of Billiton.	5,270	*****	11,200	*****	17,000
Import in MarchSlabs	5,133	*****	12,290		9,582
Total three months	17,933	******			
Deliveries in March	9,499				
Total three months					24,355
Stock					
AfloatPeculs	14,500	*****	11,000	*****	15,000
Quotation, March 31-Banca					
Billiton					
These combined returns of Banca and I					

These combined returns of Banca and Billiton for 1884, compared with those for 1883, exhibit—A decrease of the import for March of 242 tons; a decrease of the import for the three months of 1115 tons; an increase of the deliveries for March of 53 tons; an increase of the deliveries for the three months of 315 tons; a decrease of the stock second-hand of 1249 tons; an increase of the unsold stock of 282 tons; a decrease of the total stock of 9875 tons; a decline of the quotation of Banca of 102, per ton.

The Government Returns for the month of December and January are as follows:—

EXPORT OF IN PROM HOLLAND.

The Government Returns for the month of December and January silows:— EXPORT OF TIN FROM HOLLAND.

1833 1882 1881 1883 1882 1881.

To Germany Tons 220 257 399 3946 3566 3974
England 49 5 76 216 97 428
Belgium 72 95 164 1475 1095 1316 508
Hamburg 49 3 31 375 316 508
Hamburg 49 63 47 459 532 676
The United States 31 - 27 380 85 166
Other countries 57 86 45 436 584 228

.. 627 ... 509 ... 789 7267 ... 6276 ... 8451

THE COPPER TRADE.

THE COPPER TRADE.

Messrs: Harrington, Horan, and Co. (Liverpool, March 31).—
Chili copper charters for first half of this month were a visised on the 17th inst. as 1700 tons fine all bars and ingots, of which 1150 tons for England and 550 tons for orders here or Continent. Price of bars in Valparaiso was \$16.75, and exchange 32½d. Chili bar market has been rather dull since our last and we have to record a reduction in values of nearly 15s, per ton, business having been done at from 54f. 15s. to 54s. 2s. 6d. spot, and 55s. 5s. to 54s. 12s. 6d. forward. We close quiet at the lower rates. On the 28th inst. manufacturers reduced their official quotations 2f. per ton, making strong sheets 67f. per ton. The business in furnace material during the same period comprises:—At Liverpool: 110 tons Chili regulus to arrive per Mary Moore at 11s. 3d., 100 tons Battle Mountain ore to arrive at 11s., 170 tons Spanish ore (low produce) to arrive at 10s. 170 tons Spanish ore (low produce) to arrive at 10s. 170 tons Spanish ore (or word or carsenical) at 10s. per unit. At Swanses: 300 tons Quebrada ore (Ruby) at 11s. and 1100 tons Kurilla and Moonta ores to arrive at 10s. 6d. to 11s. per unit according to produce, which ranged from 9 to 20 per cent. Precipitate: 442 tons Mason's Spanish (low produce: 5 per cent.) at 10s. 4½d., and 90 tons ordinary at 10s. 1034c., 200 tons Rio Thoto at 11s. 3d., and 20 tons (best) at 11s. 7½d. per unit. Import of Chili copper during the past fortnight 1021 tons fine, against 204 tons fine same time last year; delivery, 1393 tons fine, against 204 tons fine. Import of other copper during the past fortnight 1530 tons fine, against 204 tons same time last year; delivery, 1400 tons fine, against 204 tons fines. Import of other copper during the past fortnight 1530 tons fine, against 204 tons fine ame time last year; cleivery, 1400 tons fine, against 205 tons fine. Import of other copper during the past fortnight 1530 tons fine, against 204 tons fine same time last year; cleivery, 1400 tons fine, agai

Messrs. Henry R. Merron and Co. (Leadenhall-street, March 31) Messrs. Henry B. Merton and Co. (Leadenhall-street, Meethe following Statistics of Copper:—
tocks in England and France and affoat thereto:—
Chili bars, Liverpool and Swansea
Chili ingots, Liverpool and Swansea (fine)
Other stuff, Liverpool and Swansea (fine)
Other stuff, Liverpool and Swansea (fine)
London, Foreign copper (chiefly Australian) and Landing
Havre and Bordeaux, Chilian and other bars
Havre and Bordeaux, other copper
(float from Chili (advised by mail and cable);
Ores and regulus (fine)
Bars and ingots
(float from Australia (advised by mail and cable);—
Fine copper 1,930 5,248 1,458 Total Price of Chili bars, 53%, 17s. 6d. per ton. .. 45,205

Price of Unlil bars, 534, 17s, 6d, per ton.

COPPER.—Messrs. RICHARDSON and Co. (March 31) write:—The stocks of foreign copper produce remaining at Swansea unsold this day are:—Chilian copper ore, 580 tons; regulus, 1717 tons; copper, 4386 tons. Cape copper ore, 2318 tons. May Quebrada, copper ore, 3792 tons; regulus, 493 tons. Spanish, copper ore, 229 tons; precipitate, 944 tons. Italian copper ore, 570 tons; Fortaguese, 5-38 copper ore, 7800 tons; regulus, 2210; copper, 4385; precipitate, 444; equivalent to about 7220 tons in fine copper. The private sales during the past month include 155 tons Cape ore at 11s. 3d, per unit, and 210 tons of lower produce at 11s. Caveira ore, 124 tons at 5s. 3d., 554 tons at \$s. 6d., and 7 tons precipitate at 11s. 14d.; 300 tens Quebrada (Rubby) ore at 11s. and 210 tons 1400 tons fine, of which 650 tons bars and ingots, and 300 tons in furnace material for England, and 450 tons bars for orders England or Continent. For first half of March—1700 tons, of which 115 tons bars and ingots for England, and 550 tons for orders England or France.

COPPER AND TIN.—Messrs. HENRY ROGERS, SONS, and Co. (April 3) write:—We have again to record very large monthly deliveries of copper, and their extent during the last few months is claimed as proof that consumption has been genuinely stimulated by low prices. Our visible supplies, including cable advices, have decreased 700 tons, but there has been little disposition to raise the iscel of values. The trade has become so accustomed to a speculative turnover from week to week, that its absence in itself creates the impression of weakness in the article, and consumers insist on co-stantly new concessions before they will place their orders. The feeling everywhere seems to be that statistics have little influence in the face of the general depression of trade, and this is a condition of affairs which time alone can change. We quote Chili bars as we write 54l. The smelters have reduced their price for strong copper to 67s. There has been a small demand from India for copper and yellow metal brazlery, and low prices have had to be accepted to work business. There has been a considerable turnover in tin during March, and at one time as high as 53l. was paid for spot warrants, but when it became known that the Straits shipm-nts were heavier than the market estimate, and further it was seen that the upward movement in America was spamodic only, we quickly receded again to 82l. 10s. The position is an interesting one, as, unless estimates of American stocks be altogether wrong, that market has allowed her landed supplies to run down to a somewhat low figure, especially as with the spring her deliveries should increase. The trade here are as yet unaccustomed to consider London as warehousing American tin, and the possibility of America buying in this market seems always sufficient to cause a rise. In reality, however, such transections only amount to the movement of stock from one warehouse to another, and in no way indicate any change in the real position of article. We may, therefore, have some disturbance here arising COPPER AND TIN. - Messrs. HENRY ROGERS, SONS, and Co. (April 3)

IRON AND MANGANIFEROUS ORE .- Messrs, H. BORNER and Co. Cardiff, April 2) write:—The iron ore market is stagnant, and prices, if anything, are weaker than those mentioned in our last report. Campanil ore is sold at 11s. 6d., ex ship, Cardiff or Newport, 11s. 8d. Swanses, 12s. 3d. Stockton, 11s. 7yne, 12s. Middlesborough, 13s. 6d. Rotterdam; Rubio about 6d. to 7d. less. Manguniferous ore has also fallen slightly. Quantities of Bilbao mineral are in stook for speculation in all quarters, an 1 the general opinion is that no improvement can be forthcoming for a few months at least. Frights rule exceedingly low. Bilbao to Cardiff or Newport 4s. 6d., 4s. 74d. Tyne 5s., Middlesborough

5s. 41/4d , Stockton, 5s. 9d., Carthagena to Fleetwood 6s., Porman to Cardiff 6s.,

PIG-IRON.—Messrs.WILLIAM CONNAL and Co. (March 31) write:—
The market opened at 42s. 3\(\frac{1}{2}\)d., and has been exceedingly quiet during the month, notwithstanding which the price remains steady. The fluctuations have been slight, the highest price for the month being 43s. \(\frac{1}{2}\)d. paid on March 11, and the lowest 42s. \(\frac{1}{2}\)d. accepted on March 3, closing to-day at 42s. 4\(\frac{1}{2}\)d. ellers. The stock in tore shows an increase of 1393 tons, and now amounts to 594,608 tons, with warrants in circulation for 550,850 tons. The Middlesborough market has shown little change, and the price remains steady at 37s. for No. 3, f.o.b. Tees. The stock in Connal and Co. \(\frac{1}{2}\) yards there is 504,27 tons, being a decrease of 332 tons, and there are warrants in circulation for 54,140 tons.

HORNACHOS.—It is now only about four months, writes a correspondent, since financial arrangements were so far advanced as to render it possible to start to work, according to Mr. Thomas Rickard's suggestion, for a new campaign. The review of the work hitherto is favourable. The pay or stope ground, which to the 4th level had uniformly ended after extending the levels about 300 ft., has in the 5th level been found to have a length of 375 ft., and both ends are still advancing in ore. This greater development of the ore body at the 5th level improves the prospect of the 6th level, which is advancing both north and south in ground of similar quality, and also of the 7th level, at which the depth of the main shaft will shortly admit of opening into the lode. There are now two points of interest in the 3rd level. The north end, where the level had advanced considerably beyond the limit of the stopes in barren ground, has again struck ore which promises to prove to be a fresh body, and there is considerable likelihood of a similar discovery in the north end about the new or north shaft, where ore has lately been found, which assays:—A, lead 12 per cent., silver (per ton for 60 per cent. ore), 205 ozs.; B, lead 15 per cent., silver 128 ozs.; C, lead 19 per cent., silver 186 ozs.; D, lead 18 per cent., silver 146 ozs. The average of these assays is about the same as the main ore body about the engine-shaft. The progress of the work is most satisfactory, the area of lode brought under command or laid open during the campaign will be as great as in eight years previously, and the cost is less.

New Safety-Catch for Colliery Winding Cages.—At the meeting of the Manchester Geological Society, held last Tuesday, Messrs. Tonge and Kearsley, of Hulton, near Manchester, exhibited a model of a new patent safety cage designed to remove risk of accident in the case of the breakage of ropes, &c. The cage is one of ordinary construction, with a pair of wheels, slightly eccentric, one on each side of the conductor or rod. In winding the wheels are held by the chains with their longest radius away from the rods. As soon as the chains holding the weight of the cage go slack, the wheels are brought together by means of an elastic band the rods. As soon as the chains holding the weight of the cage go slack, the wheels are brought together by means of an elastic band or spring, or by making the longest radius heavier, so that it falls of its own weight. The conductor being between is firmly gripped by the wheels, and the greater the weight or stronger the spring the more tightly are the conductors held. This arrangement, which has already been tested satisfactorily by experiments in a mine shaft, is readily adapted to any cage, and it possesses one advantage—that it is always in action, and there is no complicated machinery to get out of order.

WHEAL COMFORD AND NORTH TRESAVEAN.—At a meeting of adventurers held at Redruth, on March 28 (Mr. J. L. Peter, the adventurers held at Redruth, on March 28 (Mr. J. L. Peter, the purser, presiding) it was unanimously resolved to make a call of 12. 11s. 6d. per share—3523l. 5s. 6d.—so as to pay off the whole of the debit balance amounting to 2939l. 12s. 8d. and other liabilities. Nearly all the shares were represented at the meeting. The agents presented a very satisfactory report, and supplemented it by stating that when they have cleared Morcom's shaft, which will take about 10 days or a fortnight longer, they will if the tin lode continues as good as now, and it has every appearance of doing so, be able to double the returns and pay the cost of the mine. The copper pitches are being worked on tribute and leave a good profit. Several adventurers being unable or unwilling to go on have relinquished their shares, and some defaulters had their shares forfeited (subject to confirmation at an adjourned meeting) for non-payment of calls. Votes of thanks were passed to the lord for an entire remission of dues during pleasure.

ECONOMIC LIFE ASSURANCE SOCIETY.—At the annual general

the lord for an entire remission of dues during pleasure.

ECONOMIC LIFE ASSURANCE SOCIETY.—At the annual general meeting held yesterday of the Economic Life Assurance Society the report of the directors was adopted. It was stated that the proposals were 562, against 528 in the preceding year, but the amount proposed for was 353,000L, against 370,000L. The quinquennial report, which was also adopted, showed that the total accumulated funds amounted to 3,619,661L, and the total liabilities, consisting of the value of the policies and bonuses already declared amounted to 3,699,331L. There remained, therefore, after making provision for every known liability a surplus of 565,530L. Mr. Barnett, the Chairman, said that the policies in force were 300 more than they were five years ago, and the total amount now assured, with the bonuses accrued, was over 9,000,000L, against 3,700,000L, but the total revenue in the five years had been 1,932,000L, against 2,034,000L. A full report will appear in next week's Journal.

GENERAL MINING ASSOCIATION .- At the meeting yesterday of the General Mining Association the report and accounts were adopted and a dividend and bonus, amounting together to 15s. per share, were declared. The sales at Sydney have been some 2000 tons less than in the previous year; but the price realised has been somewhat better. The profits were actually from all sources some 2000t. larger than in the previous year. It was stated that the association is now in a sound financial condition, with a reserve of 48,000%, which compares with a debt of 50,000% or 60,000% when the present board came into office 10 years ago.

MR. N. TRUBNER.—A large number of readers interested in philology, religious philosophy, and Oriental literature will regret to learn that Mr. Nicholas Trübner, the principal of the well-known publishing firm, died somewhat suddenly on Sunday morning last at the age of 67 years. Although the works published by Messrs. Trübner, with some few exceptions, are not of a character to secure them a given term of the properties of them a circulation except among the more highly educated classes, the wide knowledge of Mr. Trübner's own attainments has ever sufficed to ensure confidence in the scientific reliability of the works issued by the firm. His death will be much regretted.

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Capstains, &c.; iron bob; dry tube.
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Two 11 inch plunger poles, two 9 inch ditto.
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Shares. Puid. Last wh. Clos. pr. Total dive. Per sh. Last pd.	12000 Bedford Unit., *c, Tavis.(£1 liab.) 0 14 0 1½ 1½ 1½ 10000 Brada, *l, Iale of Man	8000 Northern,* I, Durham 8 17 10
2000 Blue Hills f, c, 88. Agners	30000 British, * -l, 5l, Wrexham	40000 Okel Tor,* f, c, a, Oalstock
4000 Craignant Bach, "I, Oardigan	20000 British Manganese Company* 1 0 0 30000 Beuno Consols, *s-l. Flintshire 1 0 0 2½ 2 2½ 20000 Buhoh United, *l, Cardigan 1 0 0 ½ 2 2½ 12000 Collacombe Consols, c, &l, Lamerton 0 2 6	45000 Parys Corporation, *c, Anglesea 1 0 0 16
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9000 Minera Mining Co., t, Wrexham* 5 0 0 8 5 6 69 11 8 0 2 0Feb. 1884 20000 Mining Co. of Ireland, el, c, l* 7 0 0 24 0 0 0 2 6Jan. 1880	48723 D'Eresby Mountain, I, bl, Llanrwst. 0 10 0 34 12000 Derwent,* I, Durham	\$0000 Owen Vean & Tregur., *f.c., Marazion 1 0 0
11829 North Hendre, f, Wales	12000 Devent,* Durham 4 0 0 4 5 5 5 5 5 5 5 5 5	36000 Russell United, *c, Tavistock 0 15 8 14 14 15 30000 Silver Hill. *Callington
4760 Penhalls, t, St. Agness 45 0 36 14 36 3 17 0 0 1 6 Jan. 1881 12000 Phænix United, t, c. Linkiuhornes. 6 2 9 136 1 136 17 7 6 0 1 6 Apr. 1883	12000 Duchy Peru,* 6t, s, s, Cornwall	50000 Sinclair, *I, bl, Whitford
6123 South Condurrow, t, Cambornet 7 5 7 9 8½ 9 10 15 6 0 10 0Jan. 1884 9000 South Darren, t, Cardigan*	6144 East Caradon, c, St. Cleer	6000 South Carbis, t, c, Redruth
5000 Tineroft, c, t, Pool, Illoganti	30000 B. Craven Moor, * l. Pateley Bridge 1 0 0 15000 Bast Devon Cons., * c. Buckfastigh. 2 0 0 16	5000 South Dolcoath, c, t, Illogan 0 19 0 1 3 1 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
6000 West Rasset, c, Illogan19	25800 Bast Roman Gravels,* 1, Salop 1 0 3 36 36 36 18000 East Van, 1, Lianidioes*	30000 So. Phonix&Oaradon, *f.c, Linkinhn. 1 0 0 1% 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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6000 Wheal Grenville, s, Camborne	12500 Frongoch,* I, Cardgn (11000 sh.iss.) 2 0 0 12000 Gawton,* c. Tavistock 2 0 0 36 16 36	110000 Tankerville Gt. Consols, f, Salop*. 1 0 0 28 12 12000 Trebartha Lemarne, f, Northill 0 6 3 15 24
Parist Last wk Clos. pr. Total divs. Per sh Last ps.	4000C Glasg. Car.,c*[30000sb. £1 pd., 10000 15s. pd.] — 30000 Gobbett,* £, Devon	50000 Tregontress and Old Polgooth Con., 1 0 0 10 100000 Tresavean, t, c,Gwennap
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20000 Australian, c, South Australia	8000 Great West Chiverton, l, St. Agnes, 0 6 8 3435 14 50000 Great West Chiverton, l, St. Agnes, 0 6 8 3436 14	50000 Weardale,* 1, Northumber. (41. share) 1 2 6 11/2 11/2 11/2 11/2 11/2 11/2 11
30000 Brataberg, c, Norway 1	2000C Grogwinion, f, Oardigan*	50000 Weardate, **, Northumber, (4, share) 1 2 6 1/6 1/6 1/6 1/2000 Weat Assleton, **, Carnaryon
55000 Colorado United, s-1 Colorado*1 5 0 0 234 234 234 0 14 6 0 1 0May 1883 50000 Copiapo, c, Chili* (£4 shares) 1 3 10 0 234 234 234 2 14 3 0 3 0Dec. 1883	12000 Gwydyr Amai 1, 2, Carnarvon 1 0 1 2 5 3/4 3/4 12000 Hardshins, 1, Westmore. (10s. sh.) 0 2 6 3/4 3/4 12000 Herodstoot, 1, near Listeardt 1 6 0 12 14 14	12000 West Crebor, c, Tavistock 0 11 6 16 19 18. 19 1
2000 EngAus., g, Viet.* pref. (20000 o.) 1 0 0 0 3 8 0 3 8 Apr. 1882 2500 Fortuna, f, Spain*† 2 0 0 3½ 3 3½ 8 11 5 0 3 2Mar. 1884	18000 Hingston Down, c, Calstock*† 0 13 0 14 35000 Holway Consols, t, Flintshire 1 0 0 14 14	12000 West Gonamena, c. St. Cleer 0 1 0 14 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
72000 Frontino & Bolivia, g, New Gran.*† 2 0 0 1½ % 1½ 0 12 0 0 1 0Dec. 1883 1 270000 Henriett.** J. Leadville, Colorado 1 0 0 0 0 9 0 0 5Feb. 1883 1	15000 Llandegla, * I, Wales	30000 West Mary Ann, t, Menheniot
5000 Linares, l, Spain*1	5120 Lovell, t, Wendron	12000 West Phomix, t, Linkinhorne
185164 Mason & Barry*c, Portugal	8000 Mona, c, Anglesea	5190 West Pridice, St. Day,
25000 Pitangui, g, Brazil (in. 6000 £1 pd). 0 10 0 0 1 0 0 1 0 0 1 0 8 1 1400 Pontgibaud, s-i, Francet	15000 Monkstown, man, Devon 2 0 0 11/6 13/6 20000 Mostyn Consols, s-l, Flint. 1 0 0 3/4 3/4 12000 Morfa Du. 2, g. 4, Angleses, 1 0 0	2400 West Wheal Seton, c, Cambornel 1. 19 10 0 41 4 4 6 6 144 Wheal Basset, c, Illogan 1
100000 Port Philip, 9, Clunes" (#2 shares) 1 0 0 /4 0 74 0 1 2 0 1 0 1 1 5 1 2 0 0 1 0 1 1 5 1 2 0 1 1 0 1 2 0 1	80000 Mounts Bay, c, t, Breage	3000 West Cornwall, * t, Cornwall
24532 Rio l'into, c, Mortgage Bds., Huelva. 100 C 0 104 101 102 5 per cent July 1880 25000 Ditto, shares 10 0 0 191/2 18 1191/2 2 18 0 0 16 0 May 1883	2400 New Cook's Kitchen, t, Illogan 913 6 2 1¼ 1½ 8000 New Dolooath, t, c, Camborne* 3 0 0 2	2585 W.Comf., & No. Tres., t, c, Gwennap 2 2 0 1 31 1 20100 Wheal Britannia, t, c, Gwennap 1 0 0 4 1 20100 Wheal Britanbeth *t, Cornwall 64. 14
122000 Schwabs Gully, d, Kimberley 19 0 0 84 8 84 5 2 6 0 10 0Jan. 1884 120000 Scottish-Australian Mining Co.* 1 1 0 0 2½ 2½ 2½ 15 p. cent. 0 1 6Nov. 1883	10000 New Holmbush,* f, c, Callington 3 0 0 6000 New Kitty, f, St. Agues	12238 Wheal Jane, c, Keal 3 3 0 36 16 16 16 16 16 16 16 16 16 16 16 16 16
20000 Ditto, New	15000 New Redmoor, var, Callington 1 5 0 74 17500 New Terras, t, St. Austell	25000 Wh. Hony and Trelawny, s-t, Lisk. 2 0 0
253000 St. John del Rey*(&S Stock and multiple dealt in) 55 65 5 p.c. for half-year, June 1882 180000 Tambracherry, g, Wynaad 1 0 0 0 0 6 0 0 6 Aug. 1882	3500 New Tineroft, t, Lelant	30000 Wh. Silver & Lanteglos, *s-l, Camelid. 1 0 0 1 1 1 6000 Wheal Sisters, t, Leiant
South Foreign Divided South So	1988 2 2 2 2 2 2 2 2 2	25000 Wh. Hony and Trelaway, s-t, Lisk. 2 0 0
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25000 Victoria (London, 9, Australia 1 0 0 0 2 0 0 6 June 1882 15000 Western Andes, s, Colombia 5 0 0 5 1 4 5 2 0 0 6 June 1882 2100 W. Prussiau (5600 pref. sh. £10 pd.) 10 0 0 7 6 7 4 2 0 0 8 0 Apr. 1881 54800 Yorke Pen., c, South Aust. Pref. 1 0 0 76 5 7 4 2 0 0 3 0 0 3 0 May 1882	1000 N. D'Eresby Mount., **, 64, Carnary. 1 0 0	bi, blende: c, copper: g, gold; i, lead; s, silver: si, slate :I, silver-lead; i, tin; z, sino; i, irou; a, arsonic; d, diamond Limited Liability Companies; t quoted on tone Stock E comange.
9 Have made calls since last dividend was paid,	12000 North Herodsfoot, I, Liskeard 0 13 6 —	I have paid dividends.
EODEIGN MINES FOREIGN	AND MISCELL ANEOUS STOOMS	(DDAMWANG TOTAL)
NON-DIVIDEND FOREIGN MINES; FOREIGN	N AND COAL, WAGON COMPANI	ES &c INSURANCE

NON-DIVIDEND FOREIGN MINES; FOREIGN AND MISCELLANEOUS STOCKS; TRAMWAYS; INSURANCE COMPANIES; GAS, IRON AND COAL, WAGON COMPANIES, &c.			
NON-DIVIDEND FOREIGN MINES Part Cit., pr.	NON-DIVIDEND FOREIGN MINES	IRON AND COAL COMPANIES	### GAS COMPANIES. Insue Shares Shares
50000 Oiaths, **-f. Leadville, Colorado 0 0 125000 Oreguns, *g. Mysore	Sharet, Company. Fraid, Fraid, Fraid, 10 Anglo-American Brush 8 0	120800 50 Bank of British Morth America all 59 50	Shares, Pd. Clas. F.